

logical epochs we have to consider the changes in elevation of the continents themselves.

G.—Such apparent connections as that between snowfall on the Himalayas and the subsequent drought in northern India are not to be thought of as cause and effect respectively. It might be argued that the layer of snow must be evaporated, or melted, thereby absorbing more heat than would have been required if it had fallen as rain and rapidly drained away; but this cooling influence is distributed over many weeks and through the immense quantity of air that has passed over the snow fields during the winter and spring, and is thereby rendered too slight to have any great local influence in India. A broader view of the subject shows us that the winter snowfall and the summer drought are simply two features of an extensive system of changes in which the whole atmosphere of the earth takes part. The whole globe may be divided into regions where the lower stratum is moving either horizontally, or upward or downward, and where the upper stratum has similar diversities of movement. These systems of motion determine whether we shall have fair weather or rain, hot weather or cold, from day to day and accumulatively from month to month. Now these three movements are related to each other in such a way that the sum total of the energy involved throughout the atmosphere is sensibly constant, while the localities at which the upward and downward motions are taking place are undergoing perpetual changes.

The centers of high pressure over the oceans and continents slowly sway east and west or north and south; the paths of the storm centers vary in a similar manner to suit the changes of these larger areas and the centers themselves move rapidly or slowly in response to these same changes. The air that ascends between the northern and southern tropical regions of high pressure descends sometimes in high latitudes giving them cold weather with rain or snow; at other times in low latitudes, giving them warm weather with droughts. It matters not whether the droughts in southern regions chronologically follow or precede the snows of the northern regions; in neither case can either one be spoken of as the cause of the other, but each is in its turn the result of changes in the so-called general circulation of the atmosphere.

This general circulation with all its variations, diurnal,

annual, and secular, is dependent upon the intrinsic density of each portion of the atmosphere and on numerous forces, such as the heat received from the sun, the attraction of the sun, moon, and earth, the resistance offered by the irregular surface of the earth, and the interaction of slow and rapidly moving masses of air. The proper study of this subject constitutes the application of hydrodynamics to meteorology.

The meteorological problem has some analogy to that offered by the hydraulics of the Mississippi River, where cut-offs, cave-ins, mud banks, and crevasses are continually forming and reforming. We do not expect to be able to foretell when and where these will occur many years in advance, but we do keep a watch on the condition of the river, and when conditions are favorable for the formation of any important change we watch the process until the catastrophe becomes more or less imminent, and then begin to make estimates that may be called predictions, as to the exact time and place of the event.

In meteorology the best we can do at present in long-range predictions is to chart and study the occurrence of abnormal weather conditions over the whole globe; these phenomena must be interpreted in the light of all the knowledge we have of the mechanics of the atmosphere, for they are the results of purely mechanical operations covering the whole range of the mechanics of heat, gases, and vapors.

#### DEATH OF MAJ. J. W. A. WRIGHT, OF ALABAMA.

Maj. James William Albert Wright, for many years voluntary observer of the Signal Service and Weather Bureau, died at his station, Talladega, Ala., on August 11, 1894. Major Wright will be remembered as the successor of the late Prof. Henry Tutweiler, Smithsonian and Signal Service observer at Greene Springs, Hale Co., Ala. The work of these two observers covers a period of over forty years, and has given to central Alabama a fund of climatological data that will be a standard of reference for many years to come. The results of their labors were collected and published by Major Wright in 1888, as No. 5 of a series of Special Papers of the Alabama State Weather Service.

Major Wright always took an active part in the meteorological work of his State; his cheerful and hearty co-operation in all matters pertaining to the State or National service was a source of pleasure to those associated with him.—A.J.H.

#### METEOROLOGICAL TABLES.

[*Prepared by the Division of Records and Meteorological Data.*]

The following pages present in tabular form the climatological data for the current month, on which the text of the preceding part of this REVIEW has, to a large extent, been based.

For a detailed description of the methods of observation, compilation, and computation relating to these tables, the reader is referred to page 129 of the MONTHLY WEATHER REVIEW for March, 1894. The general contents of the tables are as follows:

Table I gives for 140 Weather Bureau stations, making two observations daily, and for 10 others making only one observation, the ordinary climatological data.

Table II gives for about 2,200 stations, occupied by voluntary observers, the mean and extreme temperatures and the total precipitation.

Table III gives climatological data for about 30 Canadian stations.

Table IV a gives for 38 Weather Bureau stations the percentages of sunshine for each hour of local mean time.

Table IV b gives for 43 Weather Bureau stations the total hourly rainfall for each hour of seventy-fifth meridian time.

Table V gives for 81 stations the mean temperatures for each hour of seventy-fifth meridian time.

Table VI gives for 66 stations the mean pressures for each hour of seventy-fifth meridian time.

Table VII gives for 138 stations the mean hourly movement of the wind.

Table VIII gives for 68 stations the resultant movements and directions of the wind from continuous registrations.

Table IX gives for 140 stations the component and resultant directions of the wind based on simultaneous observations at 8 a. m. and 8 p. m., seventy-fifth meridian time.

Table X a gives for 47 voluntary stations the normals and current departures of mean monthly temperatures.

Table X b gives for the same stations the similar data as to precipitation.

Table XI gives for each day of the month the number of thunderstorms (T), and of auroras (A), reported by all the observers of each State.

Table XII gives the principal climatic features of the month as reported by each State weather service.

TABLE I.—Climatological data for Weather Bureau Stations, August, 1894.

Districts and stations.	Elevation above sea-level, feet.		Pressure, in inches.		Temperature of the air, in degrees Fahrenheit.				Humidity and precipitation.				Wind.		Mean temperature data since opening of station.									
	Length of record, years.	Mean pressure, 8 a.m. and 8 p.m. + 2.	Mean reduced.		Maximum.	Mean maximum.	Minimum.	Greatest daily range.	Mean temperature of the dew-point.	Mean relative humidity per cent.	Precipitation, in inches.	Departure from normal, or more.	Total movement.	Prevailing direction.	Maximum velocity, miles per hour.	Date.	Cloudy days.	Average cloudiness, tenths.	Highest for month.	Lowest for month.	Year.			
			Departure from normal.	Date.	Mean maximum.	Minimum.	Date.	Mean maximum.	Mean minimum.	Date.	Days with col.	Total move-	Direction.	Miles per hour.	Cloudy days.									
New England.																								
Eastport .....	76	22	29.88	29.97	+ .00	66.0	- 1.0	59.2	52	51	2.17	- 2.0	10	s.w.	18	6	17	8	6.1	62.3	1803			
Portland .....	103	23	29.87	29.97	- .01	62.6	+ 0.4	62.6	57	52	1.32	- 2.1	9	s.w.	19	6	17	8	6.5	50.5	1870			
Northfield .....	672	8	29.10	30.02	+ .04	61.2	- 1.5	58.4	72	57	3.27	- 0.4	9	s.w.	21	9	14	13	5.5	52.6	1884			
Boston .....	125	24	29.88	30.02	+ .03	68.0	- 0.5	59.0	87	76	47	- 2.7	0.4	11	s.w.	21	9	14	11	5.6	72.4	1874		
Nantucket .....	14	8	30.02	30.03	+ .02	66.4	- 1.0	67.9	79	54	1.20	- 1.1	7	s.w.	26	10	12	7	5.5	58.3	1891			
Woods Hole .....	17					67.2	- 1.3	77	20	72	54	- 1.31	- 2.9	6	s.w.	27	10	12	9	5.5	70.9	1877		
Vineyard Haven .....	8					69.0	- 2.0	53	19	76	54	- 1.74	- 2.5	7	s.w.	31	10	12	12	5.4	48.7	1882		
Block Island .....	27	14	30.00	30.03	+ .02	67.1	- 1.0	77	72	55	1.53	- 1.6	7	s.w.	21	10	10	10	5.4	49.6	1894			
Narragansett Pier .....	13					66.7	- 1.7	77	27	62	55	- 2.03	- 1.1	7	s.w.	22	8	8	8	4.0	74.1	1877		
New Haven .....	107	22	29.90	30.01	- .01	68.9	+ 0.4	87	24	78	48	- 1.70	- 3.8	8	s.w.	22	8	8	8	6.7	63.7	1883		
New London .....	45	24	30.00	30.04	+ .02	67.9	- 0.6	84	24	75	47	- 2.91	- 2.1	9	s.w.	23	ne.	2	12	13	6.5	57.5	1874	
Md. Atlantic States.						72.0	- 0.6					3.58	- 1.4											
Albany .....	85	21	29.93	30.02	+ .03	69.3	- 0.9	90	24	79	48	- 2.20	- 1.5	12	s.w.	25	14	7	5.5	52.7	1881			
New York, N. Y. ....	185	21	29.84	30.03	+ .01	72.8	+ 1.0	90	82	82	1.54	- 3.2	7	s.w.	26	12	10	9	4.9	55.5	1872			
Harrisburg .....	377	7	29.63	30.03	- .01	71.4	- 0.7	90	80	84	2.22	- 0.2	26	s.w.	28	9	12	8	5.5	74.2	1874			
Philadelphia .....	117	24	29.91	30.03	- .01	73.0	- 1.0	81	81	84	2.15	- 2.7	8	s.w.	27	10	12	9	5.5	58.3	1891			
Atlantic City .....	53	21	29.98	30.03	+ .02	69.6	- 1.2	88	75	52	2.24	- 2.1	6	s.w.	23	ne.	2	12	13	6.5	49.6	1894		
New Brunswick .....						71.8	- 0.6					3.24	- 1.5	8	s.w.	24	13	9	5	5.5	74.8	1877		
Baltimore .....	179	24	29.84	30.03	- .00	73.2	- 1.3	93	81	52	2.05	- 2.7	6	s.w.	26	11	14	10	7	5.5	79.5	1872		
Washington, D. C. ....	112	24	29.92	30.01	- .00	74.0	+ 0.5	92	93	54	2.00	- 2.4	8	s.w.	15	11	14	10	5.4	59.0	1872			
Cape Henry .....	21					75.0	- 1.4	91	82	62	6.11	+ 0.3	13	s.e.	26	7	17	7	5.4	80.2	1883			
Lynchburg .....	685	24	29.34	30.06	+ .03	71.6	+ 0.1	95	9	85	57	- 1.7	6	s.e.	26	se.	2	7	17	7	5.4	80.2	1874	
Norfolk .....	57	24	29.97	30.03	+ .01	74.5	- 1.3	93	9	82	60	- 1.5	21	13	s.e.	3	11	9	5	4.5	79.5	1872		
S. Atlantic States.						78.3	- 0.1					6.87	+ 0.3		s.e.	35	w.	11	11	11	7.3	57.5	1874	
Charlotte .....	773	16	29.24	30.04	+ .02	75.9	- 0.6	96	10	55	57	- 1.0	3.1	13	s.w.	36	n.w.	11	17	8	6	4.3	80.9	1881
Hatteras .....	11	14	30.03	30.04	+ .01	77.0	- 0.2	96	10	82	67	- 2.35	- 1.0	12	s.e.	36	n.e.	5	17	7	8	5.5	79.0	1884
Kittyhawk .....	9	20	30.00	30.01	- .01	75.5	- 1.6	92	91	64	55	- 1.0	12	7	s.e.	36	n.e.	5	17	3	9	3.8	73.5	1888
Raleigh .....	388	8	29.64	30.04	- .01	75.4	- 2.0	96	9	84	57	- 1.6	1.8	13	s.e.	36	n.e.	15	15	15	7.0	78.7	1892	
Southport .....	34	18	30.00	30.03	+ .01	77.8	- 0.7	80	10	83	57	- 0.6	1.2	12	s.e.	31	n.w.	4	10	10	10	4.5	81.0	1870
Wilmington .....	78	24	29.96	30.04	+ .02	78.1	- 1.3	95	10	55	65	- 1.21	- 3.4	13	s.w.	30	n.e.	15	10	10	10	4.5	80.9	1889
Charleston .....	52	24	30.00	30.05	+ .03	80.0	- 0.2	90	10	87	67	- 2.05	- 4.8	21	s.e.	28	c.e.	17	11	26	41	5.5	82.9	1889
Columbia .....	8					79.4	- 0.8	80.0	10	86	61	- 1.95	- 2.1	13	s.e.	28	c.e.	10	10	10	10	5.5	81.0	1889
Augusta .....	209	23	29.85	30.07	+ .04	79.0	- 1.0	97	15	88	62	- 1.05	- 2.6	16	s.e.	16	s.e.	3	8	14	9	5.3	83.7	1876
Savannah .....	98	24	29.95	30.05	+ .02	81.2	- 1.4	99	11	92	67	- 1.97	- 2.2	21	s.w.	38	n.e.	11	11	11	11	4.8	84.7	1878
Jacksonville .....	43	23	30.01	30.05	+ .02	82.2	- 0.7	97	11	92	68	- 1.23	- 2.6	19	s.e.	30	n.e.	10	4	17	10	6.2	82.8	1874
Florida Peninsula.						81.6	- 0.6					4.60	- 1.5											
Jupiter .....	28	7	30.05	30.08	- .08	80.8	- 0.9	91	11	87	72	- 1.54	- 4.8	8	s.e.	26	s.w.	2	17	8	6	4.4	81.9	1888
Key West .....	22	24	30.06	30.08	+ .07	83.6	- 0.5	91	20	89	58	- 4.35	- 0.5	8	s.e.	35	s.w.	4	21	21	5	4.5	85.6	1876
Tampa .....	36	15	30.04	30.05	- .08	81.4	- 0.1	92	17	89	69	- 2.16	- 2.6	20	s.w.	30	n.e.	9	5	5.4	83.7	1873		
Pittsburg .....	44	8	30.04	30.08	- .08	80.5	- 0.5	95	20	89	65	- 3.33	- 1.8	17	s.e.	29	w.	21	9	22	4	4.4	81.8	1874
Eastern Gulf States.						79.1	- 0.8					6.04	- 0.4											
Atlanta .....	1, 131	16	28.90	30.07	+ .03	76.4	- 0.1	94	14	84	60	- 6	6.68	23	s.w.	34	n.w.	15	6	9	16	6.6	78.5	1888
Pensacola .....	56	15	29.96	30.02	+ .01	79.0	- 1.1	90	16	86	69	- 2.67	- 4.9	17	s.w.	52	n.e.	8	10	9	5.7	81.0	1887	
Mobile .....	57	24	29.83	30.04	+ .01	80.2	- 0.2	93	17	84	64	- 4.49	- 2.3	22	s.w.	36	n.e.	8	23	23	8.0	83.7	1879	
Montgomery .....	257	22	29.78	30.05	- .01	79.4	- 0.4	97	14	88	64	- 4.70	- 0.9	17	s.w.	36	n.e.	14	1	18	12	6.6	83.6	1879
Meridian .....	359	21	29.66	30.04	- .01	76.7	- 0.7	93	14	86	63	- 6.13	- 2.0	20	s.w.	24	n.e.	16	1	18	13	6.8	81.7	1879
Vicksburg .....	254	23	29.75	30.01	- .01	78.5	- 2.2	94	13	87	65	- 2.29	- 1.4	11	s.w.	23	n.e.	11	12	15	1	3.9	84.3	1872
New Orleans .....	51	24	29.98	30.04	+ .04	85.0	- 1.0	92	12	88	71	- 1.72	- 1.1	15	s.w.	30	n.e.	13	10	13	2	3.5	83.8	1874
Port Eads .....						Si. 3	- 1.9	91	22	86	68	- 7.04	- 3.2	21	s.w.	42	n.w.	22	4	24	3	5.0	0.0	
Western Gulf States.						79.4	- 1.7					5.57	- 3.8	14	s.e.	35	n.e.	21	10	10	10	6.2	87.2	1874
Shreveport .....	249	23	29.75	30.02	+ .02	78.8	- 3.4	94	13	88	61	- 5.74	- 3.8	10	s.e.	35	n.e.	21	10	9	3.8	80.0	1884	
Fort Smith .....	492	13	29.52	30.03	- .05	78.1	- 1.4	98	14	86	60	- 6.50	- 2.5	12	s.e.	26	n.e.	30	8	11	12	6.0	84.3	1879
Little Rock .....	302	10	29.71	30.02	- .02	80.6	- 0.9	90	22	85	70	- 5.25	- 2.6	16	s.e.	26	n.e.	30	8	11	12	6.8	83.2	1879
Corpus Christi .....	20	8	29.69	30.01	- .01	80.6	- 0.1	92	14	85	70	- 5.75	- 4.1	9	s.e.	25	n.e.	3	17	12				

TABLE I.—Climatological data for Weather Bureau Stations, August, 1894—Continued.

Districts and stations.	Elevation above sea-level, feet.	Pressure, in inches.		Temperature of the air, in degrees Fahrenheit.				Humidity and precipitation.				Wind.		Mean temperature data since opening of station.																		
		Length of record, years.		Mean pressure, 8 a.m. and 8 p.m. + 2.	Mean reduced.	Departure from normal.	Maximum.	Mean maximum.	Minimum.	Mean minimum.	Greatest daily range.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Precipitation, in inches.	Total movement, miles.	Maximum velocity.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness tenths.	Highest for month.	Lowest for month.	Year.									
		Mean max. and min. + 2.	Departure from normal.	Maximum.	Date.	Minimum.	Date.	Mean minimum.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Precipitation, in inches.	Days with or more.	Miles per hour.	Direction.	Date	Cloudy days.	Average cloudiness tenths.	Highest for month.	Lowest for month.	Year.												
Up. Miss. Val.—Con.																																
Dubuque	22																															
Kokuk	613	24	29.38	30.01+	.02	74.2+ 3.6	100	8	87	46	33	60	66	1.32	— 2.4	3	25	0	6	74.5	1881	66.4	1885									
Cairo	359	24	29.64	30.01+	.02	76.9+ 1.5	100	13	86	53	33	58	73	0.51	— 2.5	5	3.893	20	2	2.79	1881	70.0	1885									
Springfield, Ill.	644	16	29.30	30.03+	.01	74.8+ 2.1	96	11	86	52	43	65	65	1.68	— 1.2	9	4.084	14	17	10	3.682	1881	73.6	1875								
Hannibal	534		29.46	30.01+		76.0+ 2.0	100	14	88	60	36	66	63	1.86	— 0.5	5	4.967	36	n.	1	4.078	1881	70.5	1883								
Saint Louis Missouri Valley	571	24	29.43	30.02+	.03	78.6+ 2.3	100	14	88	60	30	66	63	1.03	— 1.1	6	4.551	17	15	13	4.0...	1881	72.8	1883								
Columbia						78.7+ 2.0	105	10	94	44	4	63	42	1.29	— 2.4	6	3.265	8	s.	13	18	8	3.5...									
Kansas City	963	7	29.04	30.03+	.04	78.3+ 3.6	100	11	90	55	4	67	28	59	0.13	— 4.3	8	24	sw.	10	1	2.578	1894	73.2	1893							
Springfield, Mo.	1,335	8	28.66	30.04+	.04	75.0+ 0.6	97	12	86	55	4	66	26	67	1.75	— 2.7	6	5.132	30	ne.	21	15	3	3.275	1894	72.5	1893					
Topeka						78.6+ 4.9	102	11	90	50	4	65	35	40	0.42	— 4.5	3	86.	sw.	30	e.	22	9	0.786	1894	72.2	1893					
Omaha	1,123	24	28.86	30.01+	.02	77.8+ 5.3	99	10	90	53	3	66	31	55	0.36	— 3.0	4	4.789	8	n.	16	17	13	3.680	1881	69.9	1885					
Valentine	2,613	9	27.33	29.95	.00	74.6+ 5.8	98	8	89	45	25	60	40	51	0.33	— 1.1	4	7.210	8	sw.	15	22	14	2.474	1894	67.3	1887					
Sioux City	1,165		28.79	29.98		75.2+ 2.0	103	8	88	47	3	62	37	56	0.57	— 1.08	7	6.493	32	s.	15	22	8	1.23...								
Pierre	1,470	20				76.8+ 4.0	100	14	89	44	3	57	45	55	0.61	— 2.5	6	8.891	8	se.	5	17	8	3.872	1894	64.0	1885					
Huron Northern Slope	1,310	14	28.62	29.98+	.03	72.8+ 3.8	99	8	89	44	3	57	45	51	0.57	— 0.8	5	52	s.	17	8	6	3.872	1894	64.0	1885						
Havre	2,477	15	27.39	29.90	.01	69.6+ 3.3	99	24	86	43	12	53	49	42	46	0.48	— 1.1	5	4.645	41	sw.	6	18	12	1.370	1882	62.4	1880				
Miles City	2,374	17	27.49	29.88	.01	75.4+ 3.7	100	26	90	52	2	68	43	45	40	0.40	— 0.6	3	4.303	36	e.	8	24	6	1.677	1878	64.3	1883				
Helena	4,108	15	25.92	29.93	.08	70.4+ 4.2	95	25	83	48	29	58	35	37	0.40	— 0.3	7	5.075	36	sw.	15	19	8	4.371	1882	63.0	1887					
Rapid City	3,290	9	26.69	29.94	.03	73.4+ 3.2	95	25	88	47	3	59	38	46	43	0.35	— 1.2	10	6.038	36	n.	21	13	15	3.973	4	6.2...	1888				
Cheyenne	6,105	24	24.17	29.96	.05	68.8+ 1.8	90	12	81	44	26	52	39	45	54	2.17	— 0.6	6	6.281	36	s.	14	13	15	4.168	1881	61.1	1884				
Lander	5,377	13	24.76	29.99	.03	66.8+ 0.3	90	12	85	42	13	49	44	43	50	0.11	— 0.6	3	2.882	36	sw.	31	8	15	5.072	1881	63.8	*				
North Platte	2,641	20	27.14	29.99+	.03	74.2+ 2.0	99	13	89	46	25	68	39	54	57	0.17	— 2.6	4	6.042	38	s.	10	14	17	3.677	1881	67.2	1885				
Middle Slope						73.7+ 1.0	100	15	90	55	5	66	33	62	0.95	— 1.9	5	3.920	24	sw.	22	7	2	2.9...								
Colorado Springs	6,098	11	24.18	30.05	.01	65.2+ 2.1	85	7	78	43	27	52	38	46	58	1.38	— 1.2	10	5.218	35	nw.	8	11	16	4.670	1889	64.1	1893				
Denver	5,287	23	24.59	29.98+	.09	71.2+ 1.7	94	12	85	49	3	57	36	44	45	1.86	— 0.3	12	4.681	30	ne.	15	10	18	4.472	1882	68.0	*				
Pikes Peak		18	18.10			30.2+ 1.0	97	8	87	47	7	41	24	31	15	4.17	— 2.4	17	8.908	50	ne.	23	1	17	7.042	1878	35.6	1884				
Pueblo	4,734	7	25.38	30.00	.01	73.2+ 0.1	92	8	87	48	27	56	42	48	53	2.42	— 0.4	10	4.733	36	nw.	13	15	13	4.075	1886	71.1	*				
Concordia	1,410	10	28.57	30.00	.02	78.4+ 4.7	103	11	93	49	4	64	39	56	52	0.41	— 3.6	1	3.730	18	s.	7	21	5	2.478	1894	64.5	1895				
Dodge City	2,523	20	27.40	29.99+	.04	75.9+ 0.9	100	19	92	52	4	63	34	54	53	0.15	— 3.0	3	7.051	36	sw.	20	21	11	4.378	1881	71.7	1883				
Wichita	1,366	7	28.60	29.99	.03	79.2+ 1.4	100	19	92	53	4	67	33	57	54	0.91	— 2.8	3	4.009	27	e.	21	22	4	3.279	1894	75.0	1893				
Oklahoma Southern Slope	1,239					78.4+ 1.0	100	15	90	55	5	66	33	62	6.95	— 0.3	5	3.920	24	ne.	24	22	7	2.9...								
Abilene	1,749	9	28.24	30.02+	.05	76.4+ 4.3	94	*	85	61	6	66	25	64	74	6.79	— 5.2	11	4.311	30	n.	2	3	15	6.882	1886	76.4	1894				
Amarillo	3,691		26.36	30.03		71.0+ 1.9	90	14	79	58	*	63	24	57	89	3.41	— 1.2	13	8.437	36	s.	12	9	8	5.9...							
Southern Plateau						78.6+ 1.9	100	15	88	61	27	67	29	53	50	0.04	— 1.4	9	6.261	49	ne.	21	7	19	5.183	1878	76.1	1880				
El Paso	3,813	17	26.22	29.97	.04	77.7+ 2.8	96	15	88	61	27	67	29	53	50	0.04	— 1.4	9	6.261	49	e.	20	7	18	6.870	1893	64.3	*				
Santa Fe	7,051	21	23.43	30.03	.06	64.4+ 2.1	82	8	74	49	25	55	26	46	59	1.95	— 0.7	16	4.021	28	n.	20	7	18	6.870	1894	64.3	*				
Tucson	2,390		27.48	29.87		82.6+ 0.9	100	17	94	43	31	71	32	58	54	1.01	— 2.2	13	3.675	34	sw.	21	10	12	9.548	1877	79.7	1876				
Yuma Middle Plateau	141	19	29.67	29.81+	.03	80.9+ 1.7	110	1	103	66	10	77	39	63	47	0.10	— 0.3	2	4.994	29	w.	1	15	16	3.092	1877	88.6	1881				
Carson City	4,720	7	25.34	29.95	.01	67.4+ 0.0	90	25	83	37	12	53	42	36	35	0.04	— 0.2	3	6.124	40	sw.	...	...	...	28	1	2	1.668	2	*	66.2	1890
Winnemucca	4,346	16	25.07	29.90	.04	71.0+ 1.9	93	25	88	44	8	58	43	43	24	0.06	— 0.1	6	4.358	30	se.	6	14	13	4.377	1877	74.2	1876				
Salt Lake City Northern Plateau	4,345	21	25.08	29.92+	.04	74.1+ 2.8	95	3	85	50	13	63	33	46	40	0.87	— 0.1	6	4.358	30	w.	6	14	13	4.377	1877	74.2	1876				
Baker City	3,430	6	26.48	29.90	.00	69.0+ 0.0	90	25	84	45	31	54	39	44	46	0.55	— 0.2	6	3.759	28	nw.	11	19	7	5.166	1894	64.5	1890				
Idaho Falls	4,742	5	25.30	29.94	.05	69.1+ 0.0	95	27	88	42	12	50	48	39	46	0.58	— 0.2	8	5.709	38	e.	22	4	16	5.570	1882	64.5	1881				
Spokane	1,930	14	27.98	29.96	.05	71.4+ 3.1	93	23	87	47	9	56	41	39	40	0.15	— 0.2	3	3.681	34	w.	24	8	28	5.714	1881	61.9	1881				
Walla Walla	1,018																															

TABLE II.—*Meteorological record of voluntary and other co-operating observers, August, 1894.*

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean.			Max.	Min.	Mean.	
Alabama.	o	o	o	Ins.	Arkansas—Cont'd.	o	o	o	Ins.
Alco.	94	67	79.4	.....	Blanchard Springs †	97	60	77.2	1.90
Ashville.	95°	70°	85.4°	.....	Brinkley †	102	57	80.4	7.58
Bermuda *†.	94	64	78.0	5.83	Camden †	.....	.....	2.47	.....
Carrollton *†.	88	68	76.6	10.43	Camden b †	99	58	78.5	2.00
Citronelle †.	89	69	78.6	7.61	Cassville †	93	58	77.0	5.44
Clanton †.	93	63	78.9	8.19	Clarksville.	.....	.....	1.89	.....
Collinette †.	92	66	80.4	6.70	Conway *†.	90	58	76.3	3.60
Cordova †.	.....	.....	7.95	Corning †	101	49	75.5	3.25	
Daphne f.	101	67	81.2	5.84	Dallas †	99	61	78.8	3.30
Decatur b †.	98	60	76.9	5.13	Dardanelle †	.....	.....	5.25	.....
Demopolis †.	.....	.....	4.22	Fayetteville †	100	47	76.2	5.41	
Elba †.	90	68	76.6	4.66	Forrest †	97	59	79.2	5.92
Eufaula a †.	95	68	81.4	5.50	Fulton †	.....	.....	2.77	.....
Eufaula c †.	.....	.....	3.88	Gaines Landing †	.....	.....	2.14	.....	
Evergreen †.	97	66	80.4	4.96	Hamburg.	98	60	78.7	6.14
Florence a †.	.....	.....	10.36	Hecla-n-a †.	.....	.....	6.91	.....	
Florence b †.	97	62	75.7	10.60	Helena b †.	100	62	81.2	6.91
Fort Deposit †.	97	64	79.8	4.37	Hindsville †.	.....	.....	7.35	.....
Gadsden †.	98	65	79.2	4.53	Hot Springs a	101	52	78.2	4.50
Greensboro †.	93	64	77.1	7.37	Hot Springs b	.....	.....	4.50	.....
Healing Springs †.	93	62	76.5	7.51	Hot Springs (near).	.....	.....	2.25	.....
Highland Home †.	97	65	78.4	4.76	Keesee Ferry †	102	48	76.0	3.32
Livingston †.	98	65	79.1	5.34	Kirby †.	95	54	77.8	5.95
Lock No. 4.	.....	.....	7.05	Lonoke †.	100	62	80.2	3.18	
Madison Station †.	100	62	77.8	4.12	Madding †.	92	65	78.6	2.30
Maple Grove †.	99	53	78.7	5.13	Malvern †.	99	54	78.5	3.54
Marion †.	94	66	79.4	12.47	Monticello †.	.....	.....	5.25	.....
Mount Willing †.	97	65	79.6	5.30	Mount Idaho †.	95	54	75.8	4.37
Newbern †.	92	68	79.4	12.00	Mount Nebo †.	92	60	75.0	6.70
Newburg †.	103	53	76.8	5.92	New Gascony †.	98	66	77.4	8.43
Newton †.	91°	61°	78.0	7.07	Newport a †.	.....	.....	1.27	.....
Opelika †.	94	60	79.4	5.03	Newport b †.	101	55	79.3	1.43
Oxana *†.	98	64	76.4	4.40	Ozark †.	104	55	80.8	2.74
Pine Apple †.	97	62	78.6	4.77	Pine Bluff †.	101	60	79.5	5.15
Pushmataha †.	64	62	69	2.29	Pocahontas †.	101	52	76.8	4.43
Rock Mills †.	95	63	77.4	6.91	Prestcott †.	100	58	80.5	18.01
Scottsboro †.	103	54	76.8	2.77	Rison †.	101	55	78.2	3.31
Selma †.	.....	.....	13.13	Rogers †.	.....	.....	2.62	.....	
Starlington *†.	95	68	78.1	2.50	Russellville †.	99	55	79.3	6.25
Sturdevant †.	.....	.....	4.03	Stuttgart †.	97	58	78.4	5.30	
Talladega †.	99	66	78.2	8.40	Texarkana †.	99	62	81.2	2.21
Tallassee Falls †.	.....	.....	9.20	Washington †.	91	60	77.0	3.78	
Thomasville †.	96	64	78.6	6.75	Winslow †.	90	61	74.8	4.74
Tuscaloosa †.	98	63	79.5	6.04	California.	.....	.....	.....	.....
Tuscumbia †.	100	63	78.7	6.85	Adit.	100	43	70.0	0.04
Union †.	94°	63°	78.8	8.43	Ager.	106	50	77.0	0.00
Union Springs †.	96	64	79.6	8.84	Anew.	101	47	68.2	0.00
Valley Head †.	96	59	75.8	7.00	Antioch *†.	105	60	70.4	0.00
Wetumpka.	.....	.....	5.99	Aptos *†.	85	50	64.3	0.00	
Wilsonville †.	.....	.....	17.35	Arlington Heights.	107	48	74.8	0.03	
Alaska.	Killisnoo †.	69	42	54.0	Athlone *†.	116	60	86.6	1.71
Arizona.	Ariz. Canal Co. Dam.	109	72	89.6	Bakersfield *†.	109	65	85.9	0.04
Benson b †.	105	68	84.4	Ballast Point L. H.	.....	.....	0.04	.....	
Bisbee *†.	100	51	78.9	2.58	Barstow †.	105	58	83.6	0.34
Buckeye †.	107	61	86.6	Beaumont *†.	105	57	78.6	0.00	
Calabashas †.	94	55	74.9	Belmont *†.	104	56	70.6	0.00	
Casa Grande *†.	109	68	91.0	Berendo *†.	110	68	87.4	0.00	
Dragon †.	.....	.....	4.78	Berkeley.	93	47	63.0	0.00	
Dragoon Summit *†.	92	64	79.8	Bethany *†.	106	50	74.8	1.71	
Dudleyville †.	102	68	82.8	Bishop Creek *†.	101	70	81.8	0.23	
Eagle Pass *†.	.....	64	72.6	Boca *†.	100	35	56.7	1.71	
Farleys Camp *†.	.....	81.4	1.90	Borden *†.	110	63	83.4	0.00	
Flagstaff †.	83	48	85.5	Boulder Creek *†.	104	46	66.5	0.00	
Fort Apache.	94	48	70.6	Brentwood *†.	107	59	77.4	0.00	
Fort Bowie †.	95	54	73.5	Brighton *†.	115	55	79.8	0.00	
Fort Grant.	95	52	73.1	Bryon *†.	103	57	75.9	0.00	
Fort Huachuca.	92	53	70.8	Caliente *†.	103	62	80.9	0.00	
Gila Bend *†.	110	77	93.0	Calistoga *†.	110	52	75.5	0.00	
Globe †.	98	63	81.0	Capitolia *†.	95	54	66.7	0.00	
Keams Canyon †.	94	50	70.6	Capito Seco.	.....	.....	0.00	.....	
Lochiel †.	.....	.....	3.26	C. Mendocino L. H.	.....	.....	0.00	.....	
Maricopa *†.	116	80	93.5	Centererville.	93	54	65.6	0.00	
Mount Huachuca †.	91	56	72.7	Chico *†.	108	47	71.0	0.04	
Natural Bridge †.	.....	.....	2.49	Claremont †.	78	46	62.1	0.00	
Navajo *†.	58	65.6	.....	Colfax *†.	104	58	83.7	0.03	
Oracle †.	97	60	71.1	Colusa †.	106	53	76.6	0.00	
Palomas †.	110	59	87.6	Corning *†.	110	63	83.7	0.00	
Pantano *†.	98	70	81.6	Crescent City †.	81	45	58.5	0.13	
Parkert.	116	61	92.0	Crescent City L. H.	.....	.....	0.07	.....	
Pecoria †.	108	71	88.4	Crofton *†.	103	50	80.4	0.08	
Phoenix b †.	107	68	87.2	Davisa †.	108	65	77.9	0.00	
Red Rock *†.	108	71	89.3	Davisebleb.	106	52	76.0	0.00	
Reymert †.	103	64	83.0	Deep Creek.	.....	.....	0.80	.....	
Rye †.	109	60	82.4	Delano *†.	105	65	85.5	0.00	
San Carlos.	107	61	82.6	Delta *†.	109	59	78.0	1.71	
San Simon *†.	103	70	87.0	Dinuba *†.	107	72	87.1	0.00	
Show Low.	.....	.....	2.71	Downey *†.	105	58	72.8	0.00	
Signal †.	109	65	87.9	Drytown.	107	48	76.0	1.71	
Sulphur Sprg Val †.	.....	.....	3.47	Dunnigan *†.	108	60	83.0	0.00	
Texas Hills *†.	115	79	94.9	East Brother L. H.	.....	.....	0.00	.....	
Tucson b †.	98	75	82.4	Edgewood *†.	95	57	71.1	0.46	
Walnut Ranch *†.	91	59	69.9	Edmonton *†.	95	43	63.0	1.45	
Whipple Barracks.	93	51	71.2	Eldorado *†.	105	60	78.9	0.00	
Wilcox *†.	100	40	76.8	Elk Grove *†.	101	60	77.0	0.00	
Yuma *†.	112	80	92.4	.....	.....	.....	5.45	.....	

Meteorological record of voluntary observers, &amp;c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean.			Max.	Min.	Mean.	
California—Cont'd.	o	o	o	Ins.	Arkansas—Cont'd.	o	o	o	Ins.
Elmira *†.	100	60	78.7	0.00	Blanchard Springs †	97	60	77.2	1.90
El Verano *†.	102	50	68.2	0.00	Brinkley †	102	57	80.4	0.00
Eminigrant Gap *†.	90	50	67.7	0.00	Camden †	99	58	78.5	2.47
Escendido.	103	45	72.7	T.	Camden b †	93	58	78.5	0.00
Esparto *†.	113	60	83.7	0.00	Canyon Landing †	.....	.....	0.00	.....
Evergreen.	106	67	83.9	0.18	Carson Landing †	101	51	71.3	0.00
Fall Brook *†.	109	51	68.9	0.18	Charleston †	101	50	72.4	0.00
Farmington *†.	111	50	72.8	0.00	Chesapeake Bay.	.....	.....	0.00	.....
Felton *†.	110	44	69.6	0.00	Chico *†.	103	57	71.3	0.00
Fernando *†.	108	47	72.1	0.00	Claremont *†.	101	55	73.0	0.00
Florence *†.	108	61	71.3	0.00	Claremont b †	101	50	72.4	0.00
Florin *†.	108	56	72.4	0.00	Concordia *†.	101	51	71.3	0.00
Folsom City a *†.	108	60	82.6	0.00	Concordia b †	101	51	71.3	0.00
Folsom City b *†.	108	64	78.8	0.03	Corona *†.	101	51	71.3	0.00
Fort Ross.	.....	.....	0.00	Corona b †.	101	51	71.3	0.00	
Fremontville *†.	104	52	67.0	0.00	Costa Rica a *†.	101	51	71.3	0.00
Gateshead.	106	48	62.9	0.05	Costa Rica b †.	101	51	71.3	0.00
Galt *†.	111	58	81.3	0.00	Costa Rica c *†.	101	51	71.3	0.00
Gilroy *†.	103	54	75.4	0.00	Costa Rica d *†.	101	51	71.3	0.00
Glen Ellen *†.	105	64	76.6	0.00	Costa Rica e *†.	101	51	71.3	0.00
Glen Ellen.	106	50	68.9	0.00	Costa Rica f *†.	101	51	71.3	0.00
Goshen *†.	108	65	83.9	0.00	Costa Rica g *†.	101	51	71.3	0.00
Goshen.	108	65	83.9	0.00	Costa Rica h *†.	101	51	71.3	0.00
Goshen.	108	65	83.9	0.00	Costa Rica i *†.	101	51	71.3	0.00

## Meteorological record of voluntary observers, &amp;c.—Continued.

## Meteorological record of voluntary observers, &amp;c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			
	Max.	Min.	Mean			Max.	Min.	Mean			Max.	Min.	Mean			Max.	Min.	Mean	
California—Cont'd.	o	o	o	Ins.	Colorado—Cont'd.	o	o	o	Ins.	Georgia—Cont'd.	o	o	o	Ins.	Illinois—Cont'd.	o	o	o	Ins.
Summerdale †	78	49	62.0	0.01	San Luis †	90	34	62.6	2.12	Fleming †	101	67	82.0	11.45	Sycamore † <sup>1</sup>	95	47	70.2	0.95
Summit <sup>8</sup>	96	52	74.0	0.20	Seibert †	98	83	83.8	0.83	Forsyth <sup>1</sup>	98	68	79.4	9.54	Tuscola <sup>1</sup>	98	48	71.2	2.06
Susanville <sup>†</sup>	96	52	72.8	0.00	Smoky Hill Mine †	83	40	63.1	1.85	Fort Gaines †	99	62	80.5	0.45	Walnut †	103	44	76.2	1.35
Sutter Creek <sup>5</sup>	102	45	72.8	T.	Springfield †	83	40	63.1	0.69	Guineville †	99	59	74.2	4.45	Winnebago †	96	46	71.2	1.27
Tehachapi <sup>8</sup>	90	65	75.8	0.00	Spring Gulch †	80	31	50.8	4.10	Gillsville <sup>†</sup>	98	62	75.2	5.58	Zion †	99	46	72.2	3.19
Tehamah <sup>8</sup>	108	67	83.0	0.25	Sunnyside	74	35	54.6	2.83	Griffon †	95	56	74.1	0.45	Indiana.				
Templeton <sup>8</sup>	105	52	71.0	0.00	Surface Creek †	86	51	82.3	1.19	Hawkinsville †	93	57	76.8	10.31	Angola <sup>1</sup>	98	47	73.3	0.89
Towles <sup>8</sup>	94	55	70.6	0.00	Thon †	94	45	69.2	3.52	Hephzibah <sup>†</sup>	92	64	77.3	8.36	Ashboro †	99	45	73.7	3.13
Tracy <sup>8</sup>	104	58	74.2	0.00	Twin Lakes	95	56	74.1	0.45	Lafayette †	97	63	75.4	2.57	Butterville †	103	43	74.6	2.58
Traver <sup>6</sup>	106	70	86.6	0.00	Vernon †	104	38	77.2	1.20	LaGrange †	95	61	77.0	5.44	Cambridge City <sup>1</sup>	96	43	71.0	0.54
Trinidad L. H.	.....	.....	.....	.....	Wallett †	98	24	.....	.....	Levettown †	95	60	76.2	6.01	Columbia City <sup>1</sup>	94	48	70.4	0.87
Tropicana <sup>8</sup>	102	56	68.9	T.	Ward District	90	70	78.0	1.32	Lumpkin †	92	64	78.8	4.55	Columbus	99	48	77.7	0.85
Truckee <sup>8</sup>	92	50	65.6	0.00	Watkins <sup>1</sup>	.....	.....	.....	.....	Macon <sup>a</sup> †	97	55	79.6	6.77	Connersville †	96	47	73.2	0.67
Tulare <sup>a</sup> <sup>8</sup>	107	65	82.1	0.00	Yuma	90	70	78.0	0.70	Macon <sup>b</sup>	.....	.....	.....	Crawfordsville †	95	45	73.2	0.85	
Tulare c.	.....	.....	.....	.....	Connecticut.	.....	.....	.....	.....	Marietta †	91	61	75.4	4.63	Degonia Springs <sup>1</sup>	96	54	77.2	1.70
Tunnel No. 2.	.....	.....	.....	.....	Bridgeport <sup>†</sup>	86	54	72.7	2.29	Marshallsville †	97	60	80.6	8.23	Delphi	99	45	73.6	1.46
Turlock a <sup>6</sup>	110	60	85.2	0.00	Canton	89	67	71.1	0.20	Millen †	100	63	80.7	10.48	Evanston	102	50	77.8	2.73
Turlock b †	110	46	77.4	0.04	Colchester	86	43	67.4	1.07	Monticello <sup>1</sup> <sup>†</sup>	90	62	77.8	10.30	Farmiland	95	43	71.2	2.25
Ukiah †	103	46	71.6	0.00	Falls Village	.....	.....	.....	.....	Morgan †	96	68	80.6	5.34	Hammond †	100	45	68.6	0.44
Upper Lake.	107	50	75.2	T.	Greenfield Hill	.....	.....	.....	.....	Newman †	94	61	77.8	4.40	Humpatch †	94	45	67.8	0.41
Upper Mattole <sup>1</sup>	102	50	66.6	0.00	Hartford b.	.....	.....	.....	.....	Point Peter <sup>1</sup>	94	62	77.2	3.90	Huntingburg <sup>†</sup>	100	47	78.1	3.20
Vacaville a <sup>1</sup>	110	59	76.3	0.00	Hartford c.	84	48	68.6	2.44	Poulain †	95	65	80.4	10.55	Huntington.	98	46	71.0	0.99
Vacaville b <sup>6</sup>	110	58	77.4	0.00	Lake Konomoc	.....	.....	.....	.....	Quitman †	98	58	80.0	7.71	Jeffersonville.	96	50	76.9	4.02
Valley Springs <sup>8</sup>	103	65	81.6	T.	Lebanon	.....	.....	.....	.....	Ramsey †	99	60	76.8	3.88	Kokomo †	98	45	72.9	1.43
Ventura †	85	49	64.8	T.	Meriden	87	47	68.2	1.33	Resaca †	.....	.....	.....	Lafayette †	100	42	73.1	2.51	
Vina <sup>8</sup>	110	68	86.1	0.00	Middletown	89	60	69.0	1.33	R Reynolds †	98	55	76.9	0.72	Logansport a <sup>†</sup>	97	45	71.2	0.79
Volcano Springs <sup>8</sup>	120	80	98.9	T.	New Hartford a <sup>†</sup>	86	49	68.1	1.29	Talbotton †	93	61	77.1	0.23	Logansport b.	97	45	75.4	3.84
Walnut Creek	109	50	72.0	0.00	New Hartford b.	.....	.....	.....	.....	Thomasville †	95	70	81.4	6.22	Madison †	99	49	75.4	3.84
Weinrich Ranch	.....	.....	.....	.....	N. Grosvenor Dale	88	43	66.7	2.56	Toocoat †	93	61	75.8	5.71	Marengo <sup>1</sup>	98	50	70.3	3.66
Westley <sup>8</sup>	108	64	81.1	0.00	Norwalk	87	46	67.8	1.23	Washington †	95	59	77.0	6.30	South Bend †	94	47	71.7	0.51
Wheatland	108	52	77.2	0.14	Southington <sup>1</sup>	86	45	67.8	2.15	Way Cross †	94	58	80.4	11.54	Ferry Haute †	96	52	76.2	3.63
Whittier <sup>8</sup>	109	55	78.3	0.00	South Manchester	.....	.....	.....	.....	Waynesboro †	96	61	78.8	13.70	Paraiso †	96	38	66.6	1.30
Williams <sup>8</sup>	109	58	81.5	0.00	Storrs	84	43	66.3	2.37	West Point †	95	63	75.5	5.10	Mount Vernon <sup>b</sup>	98	41	73.1	0.56
Willowsb <sup>8</sup>	105	60	83.3	0.00	Thompson <sup>1</sup>	83	43	65.5	2.84	Whitesburg †	95	63	75.5	7.62	Mountaine <sup>†</sup>	100	57	77.2	3.43
Wilmington <sup>8</sup>	95	62	74.6	0.00	Voluntown †	85	38	67.2	2.22	Indiana.	98	57	77.8	3.43	New Albany <sup>†</sup>	96	57	77.8	3.43
Winters <sup>8</sup>	110	62	82.9	0.00	Wallingford †	.....	.....	.....	.....	Plymouth †	95	45	72.3	1.25	Plymouth †	95	45	72.3	1.25
Wire Bridge <sup>8</sup>	103	58	78.4	T.	Waterbury	85	48	68.0	2.41	Rockville †	102	55	70.7	2.75	Princeton <sup>1</sup>	102	55	70.7	2.75
Woodland <sup>8</sup>	110	50	70.9	0.00	West Simsbury	.....	.....	.....	.....	Rushville †	100	44	74.5	2.23	Rushville †	100	44	74.5	2.23
Yerba Buena L. H.	.....	.....	.....	.....	Florida.	.....	.....	.....	.....	Scotsburg <sup>1</sup>	95*	45	73.5	2.14	Atlanta.	102	55	70.3	2.14
Yreka †	101	45	72.1	0.41	Amelia †	94	70	81.1	7.10	Seymour †	100	34	75.7	1.13	Aurora <sup>1</sup>	98	50	75.3	1.37
Yuba City <sup>5</sup>	106	64	80.7	0.00	Archer †	97	69	81.8	5.29	Shelbyville †	98*	50	75.3	1.37	Bearードtown <sup>†</sup>	103*	55	80.3	2.15
Colorado.	.....	.....	.....	.....	Avon Park †	97	70	82.6	8.66	South Bend †	94	47	71.7	0.51	Beaufort †	103	52	76.2	3.42
Abbott	.....	.....	.....	.....	Brooksville †	90	70	79.3	6.53	Elmwood <sup>1</sup>	96	52	72.9	1.63	Blairdwood †	96	42	70.9	0.58
Akron <sup>1</sup>	97	50	72.8	0.50	Clermont †	95	53	75.0	5.78	Farmiland	95	42	70.9	0.58	Carroll †	100	41	72.3	2.87
Alma †	70	29	50.0	3.05	Clinton	91	62	74.4	1.71	Edgington <sup>1</sup>	95	40	71.4	0.91	Cedar Falls †	102	40	75.0	1.95
Avoca <sup>1</sup>	.....	.....	.....	.....	Homeland †	92	66	76.6	8.70	Effingham <sup>10</sup>	100	51	76.2	2.72	Cedar Rapids †	100	47	74.7	2.51
Boulder †	87	44	68.0	0.84	Lake †	76	34	55.6	1.20	Evanston <sup>10</sup>	97	56	71.7	0.77	Centerville †	106	50	79.0	0.65
Box Elder	.....	.....	.....	.....	Leavenworth <sup>1</sup>	93	53	75.0	5.78	For Sheridan <sup>1</sup>	95	47	69.2	0.27	Charles City †	102	50	75.2	1.10
Breckenridge †	76	27	51.4	2.20	Locality †	97	60	80.0	7.12	Galva †	94	41	72.1	1.78	Clarinda †	101	57	77.6	0.23
Byers <sup>1</sup>	100	46	70.9	0.00	Orlando <sup>1</sup> <sup>†</sup>	97	68	82.8	7.61	Grafton †	100	56	79.1	2.98	Clinton.	100	48	73.6	1.74
Canyon <sup>1</sup>	90	47	69.8	1.06	Plant City †	97	68	81.6	9.51	Greenville †	106	52	78.4	2.31	College Springs	106	49	77.8	1.7
Castle Rock †	90	35	67.2	1.53	Port Tampa †	98	76	87.1	9.51	Grovesville †	102	51	76.4	1.19	Corning †	98	49	74.9	0.37
Climax <sup>1</sup> <sup>†</sup>	61	28	41.8	3.21	St. Francis B's †	94	67	79.8	9.37	Hedgesville †	102	51	76.4	1.03	Cresco †	101	42	72.0	0.33
Collbran	.....	.....	.....	.....	Homeland †	92	66	79.9	10.13	Higginson <sup>1</sup>	102	44	72.0	0.29	Decorah †	102	40	72.8	0.53
Como (near) †	75	36	54.2	2.67	Hypoluxo <sup>1</sup> <sup>†</sup>	92	74	81.8	1.02	Holiday <sup>1</sup>	99 <sup>d</sup>	44 <sup>d</sup>	75.0	1.70	Tulsa <sup>†</sup>	105	39	74.5	0.56
Cope †	98	49	75.4	0.87	Kissimmee †	97	73	79.8	7.04	Havana †	98	53	75.4	1.84	Iowa.	102	43	74.4	1.34
Craig.	.....	.....	.....	.....	Lake City †	93	65	78.9	8.49	Chesterfield †	94	56	73.4	1.82	Belle Plaine	103	43	74.4	1.34
Deer Trail <sup>8</sup>	92	56	75.4	1.75	Merritts Island †	94	70	82.3	5.70	Clear Creek †	102	41	73.4	1.82	Albia.	104	48	75.7	0.50
Delta †	100	47	73.2	1.56	Moseley Hall †	93	61	75.8	5.80	Decatur †	96	50	74.6	1.64	Alta †	102	48	74.1	2.87
Divide Ex. Station	81	41	62.0	2.76	Mullet Key †	92	72	83.6	9.04	East Peoria †	97	47	70.8	0.					

## Meteorological record of voluntary observers, &amp;c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean	
Iowa—Cont'd.	o	o	o	Ins.
Logan †	108	43	75.3	1.93
Marshall †	102	43	73.9	1.20
Mason City †	102 <sup>d</sup>	38 <sup>d</sup>	72.2 <sup>d</sup>	0.98
Maxon *†	106	60	75.5	0.60
Mechanicsville	101	45	72.6	2.41
Monticello †	99	44	73.0	3.42
Mount Pleasant *			72.4	0.66
Newton	104	49	75.2	4.53
North McGregor †			72.1	1.32
Ogden	105	45	77.1	2.28
Osage *† <sup>b</sup>	99	52	68.9	2.18
Oskaloosa †	103	44	74.5	2.38
Ottumwa	102	50	76.3	1.32
Ovid †	105	46	78.8	0.35
Panama †	100	47	74.8	1.63
Richland *†	107	53	74.3	2.22
Rockwell City			71.5	1.75
Sac City †	103	57	75.9	3.66
Seymour †	101	47	77.5	1.59
Sibley	97	43	71.4	0.97
Spirit Lake †	104	44	75.0	1.11
Sutherland	102	44	72.9	2.90
Toledo *†	104	42	76.7	0.96
Villisca †			70.0	0.39
Vinton *†	103	50	73.4	2.28
Washington †	102	46	74.2	1.89
Webster City *†	104	46	74.7	1.95
Williams *†	103	50	72.3	1.69
Winterstet †	103	47	76.3	0.53
Kansas—Cont'd.				
Abilene †	103	49	78.8	0.82
Achilles *†	104	53	72.8	0.87
Allison *† <sup>c</sup>	101	53	75.4	0.83
Altoona *† <sup>c</sup>	104	57	77.4	0.79
Atchison †	103	50	78.6	0.07
Beloit †	105	51	80.3	0.10
Burlington †	104	46	78.7	0.73
Coffeyville *†	106	50	79.0	0.25
Colby †	101	46	75.2	0.07
Coldwater †	101	53	79.6	1.55
Collyer *†	102	60	72.6	1.00
Columbus †	101	49	76.4	2.45
Coolidge †	104	47	75.4	0.50
Cunningham †	104	46	78.5	0.11
Downs			0.27	
Eldorado †	104	58	80.0	1.28
Elk City *†	105	53	80.9	0.50
Ellis *†	104	56	76.2	0.20
Emporia †	101	57	79.0	0.20
Englewood †	103	48	77.0	0.83
Eureka Ranch †	106	50	78.6	0.12
Fort Riley †	101	40	75.4 <sup>b</sup>	2.00
Garden City †	98	49	73.4	1.83
Garfield			0.14	
Gibson *†	104	49	75.3	0.25
Gove *† <sup>b</sup>	107	58	77.6	0.10
Grainfield *† <sup>d</sup>	104	60	76.7	0.50
Greola *†	107	48	80.4	0.25
Halstead *	100	45	75.6	1.61
Hays City †	103	45	75.2	T.
Horton †	105	51	79.1	0.05
Hutchinson †	103	48	78.6	0.50
Independence †	100	51	81.8	0.66
Ionia †	102	52	78.6	T.
Jaguas †	103	45	75.0	0.31
Johnson †	102	50	75.5	1.06
Kiowa †	109	51	79.6	0.16
Lakin †	99	41	73.7	1.15
Lawrence †	102	52	75.1	0.49
Lebo †	106	43	79.1	0.83
Leoti †	103	50	73.8	1.65
Liberal †	106	49	77.4	1.35
Macksville †	105	49	78.2	0.51
McPherson †	101	47	79.8	0.14
Manhattan b	107	45	80.4	0.48
Manhattan c *†	111	48	76.7	0.68
Marion †	101	44	76.7	0.49
Marmaton			2.51	
Medicine Lodge			0.27	
Minneapolis †	104	49	79.1	0.24
Monument *†	103	60	77.6	1.25
Morland †	102	48	76.0	0.54
Morton †	102	48	74.4	1.05
Mount Hope *†	101	62	79.5	1.46
Ness City †	101	59	80.8	0.05
New Eng. Ranch †	100	53	77.5	0.45
Oberlin †			0.71	
Olastra †	105	48	77.4	2.50
Oswego †	109	43	78.4	1.11
Phillipsburg †	110	50	79.2	0.54
Pleasant Dale †	103	47	77.0	0.40
Quinter *†	105	60	85.0	
Rome *†	101	52	79.5	0.62
Salina †	104	52	80.5	0.50
Sedan †	100	55	82.4	0.16
Sharon Springs *†	104	60	78.5	0.45
Topeka	103	48	80.5	0.60
Tribune †	102 <sup>e</sup>	49 <sup>e</sup>	74.0 <sup>e</sup>	1.55
Ulysses †	106	52 <sup>e</sup>	77.8 <sup>e</sup>	0.80
Wakefield *†	108	60	82.3	0.78
Wallace a			1.71	
Wamego *†	104	47	79.7	0.43
Washington †	110	45	78.9	0.46
Wellington *†	102	61	82.8	0.67
Winfield *†	112	50	82.6	0.15

## MONTHLY WEATHER REVIEW.

## Meteorological record of voluntary observers, &amp;c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean	
Kansas—Cont'd.	o	o	o	Ins.
Winona *† <sup>a</sup>	100	59	78.4	0.25
Yates Center †	103	47	70.0	0.00
Kentucky.				
Alpha *† <sup>a</sup>	100	56	81.9	0.83
Blandville	101	54	77.3	3.10
Bowling Green *† <sup>a</sup>	98	48	74.0	3.10
Bowling Green †	100	56	79.2	2.98
Caddo †	90	53	76.2	2.10
Canton *† <sup>a</sup>	105	56	77.8	2.28
Carrollton †	104	45	77.0	1.57
Calletsburg †			3.48	
Cromwell †			3.36	
Eddyville *† <sup>a</sup>	94	66	75.6	2.64
Edmonton †	98	53	75.3	4.62
Elizabethtown † <sup>a</sup>	97	63	79.3	3.14
Eubank †	102	48	76.8	4.47
Falmouth †			1.88	
Fords Ferry †	105	52	78.3	2.13
Franklin *† <sup>a</sup>	103	62	79.5	2.20
Greendale *†	96	62	77.0	4.50
Greensburg *† <sup>a</sup>	98	57	74.7	4.75
Harrodsburg †	98	48	76.6	6.07
Henderson †	98	56	79.8	2.30
Hendricks †			7.55	
Louisville			4.16	
Marion Ferry †	105	52	78.3	2.06
Matlock *† <sup>a</sup>	98	62	80.2	1.60
Middleboro †	95 <sup>c</sup>	54 <sup>c</sup>	75.2 <sup>c</sup>	2.29
Mount Sterling †	94	43	74.5	3.02
Munfordville *† <sup>a</sup>	97	55	78.9	3.28
Paducah a †			2.80	
Paducah b †	105	57	80.8	2.32
Princeton †	104	50	75.8	4.54
Russellville †	103	50	79.0	1.91
Sandy Hook †	99	41	73.6	4.32
Shelby City *†	94	55	74.6	3.84
Shelbyville †	103	46	77.7	2.05
South Fork † <sup>c</sup>			7.19	
Springfield †	100	51	76.2	4.03
Williamsburg †			2.10	
Louisiana.				
Abbeville	94	66	79.8	5.25
Alexandria †	96	63	78.1	7.74
Bastrop †	99	60	78.2	2.76
Baton Rouge †	94	65	80.2	5.36
Cahouen †	97	63	78.8	3.25
Cameron †	95	65	78.0	11.90
Cheneyville †	96	65	79.8	4.62
Coushatta a †			6.48	
Coushatta b †	95	62	78.8	7.76
Bastrop †	99	60	78.2	2.76
Baton Rouge †	94	65	80.2	5.36
Cahouen †	97	63	78.8	3.25
Cameron †	95	65	78.0	11.90
Cheneyville †	96	65	79.8	4.62
Coushatta a †			6.48	
Coushatta b †	95	62	78.8	7.76
Bastrop †	99	60	78.2	2.76
Baton Rouge †	94	65	80.2	5.36
Cahouen †	97	63	78.8	3.25
Cameron †	95	65	78.0	11.90
Cheneyville †	96	65	79.8	4.62
Coushatta a †			6.48	
Coushatta b †	95	62	78.8	7.76
Bastrop †	99	60	78.2	2.76
Baton Rouge †	94	65	80.2	5.36
Cahouen †	97	63	78.8	3.25
Cameron †	95	65	78.0	11.90
Cheneyville †	96	65	79.8	4.62
Coushatta a †			6.48	
Coushatta b †	95	62	78.8	7.76
Bastrop †	99	60	78.2	2.76
Baton Rouge †	94	65	80.2	5.36
Cahouen †	97	63	78.8	3.25
Cameron †	95	65	78.0	11.90
Cheneyville †	96	65	79.8	4.62
Coushatta a †			6.48	
Coushatta b †	95	62	78.8	7.76
Bastrop †	99	60	78.2	2.76
Baton Rouge †	94	65	80.2	5.36
Cahouen †	97	63	78.8	3.25
Cameron †	95	65	78.0	11.90
Cheneyville †	96	65	79.8	4.62
Coushatta a †			6.48	
Coushatta b †	95	62	78.8	7.76
Bastrop †	99	60	78.2	2.76
Baton Rouge †	94	65	80.2	5.36
Cahouen †	97	63	78.8	3.25
Cameron †	95	65	78.0	11.90
Cheneyville †	96	65	79.8	4.62
Coushatta a †			6.48	
Coushatta b †	95	62	78.8	7.76
Bastrop †	99	60	78.2	2.76
Baton Rouge †	94	65	80.2	5.36
Cahouen †	97	63	78.8	3.25
Cameron †	95	65	78.0	11.90
Cheneyville †	96	65	79.8	4.62
Coushatta a †			6.48	
Coushatta b †	95	62	78.8	7.76
Bastrop †	99	60	78.2	2.76
Baton Rouge †	94	65	80.2	5.36
Cahouen †	97	63	78.8	3.25
Cameron †	95	65	78.0	11.90
Cheneyville †	96	65	79.8	4.62
Coushatta a †			6.48	
Coushatta b †	95	62	78.8	7.76
Bastrop †	99	60	78.2	2.76
Baton Rouge †	94	65	80.2	5.36
Cahouen †	97	63	78.8	3.25
Cameron †	95	65	78.0	11.90
Cheneyville †	96	65	79.8	4.62
Coushatta a †			6.48	
Coushatta b †	95	62	78.8	7.76
Bastrop †	99	60	78.2	2.76
Baton Rouge †	94	65	80.2	5.36
Cahouen †	97	63	78.8	3.25
Cameron †	95	65	78.0	11.90
Cheneyville †	96	65	79.8	4.62
Coushatta a †			6.48	
Coushatta b †	95	62	78.8	7.76
Bastrop †	99	60	78.2	2.76
Baton Rouge †	94	65	80.2	5

*Meteorological record of voluntary observers, &c.—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.	
	Max.	Min.	Mean			Max.	Min.	Mean		
Minnesota—Cont'd.	0	0	0	Ins.	Missouri—Cont'd.	0	0	0	Ins.	
Crookston †	91	46	67.2	2.28	Cowgill	102	52	80.2	0.88	
Dassel †	96	48	72.8	1	Darkville †	107	50	84.4	0.60	
Farmington †	98	42	71.5	0.52	Dixon	103	57	79.9	0.89	
Fergus Falls †	93	46	69.8	1.09	Downing	—	—	—	—	
Fort Ripley †	—	—	—	0.93	Edge Hill † <sup>5</sup>	98	62	75.8	2.46	
Grand Meadow †	99	42	71.0	1.99	Eight Mile † <sup>1</sup>	98	52	74.1	1.97	
Granite Falls	99	40	72.2	0.90	Eldon † <sup>1</sup>	106	60	78.1	0.81	
Hutchinson †	98	54	71.4	0.60	Elmira	110	42	78.0	0.20	
L Winnibigoshish †	95	47	65.7	0.88	Emma <sup>8</sup>	—	63	80.8	0.79	
Leech Lake <sup>1</sup>	90	49	64.3	1.10	Fairport	—	—	—	—	
Long Prairie †	97	37	69.0	0.72	Farmersville	—	—	—	—	
Luverne †	95	44	71.0	1.32	Fayette	108	47	80.4	0.79	
Maple Plain	99	39	71.4	0.66	Fox Creek <sup>1</sup>	94	62	75.1	3.27	
Marfield †	89	33	62.8	0.94	Fulton	—	—	—	—	
Mazzeppa <sup>1</sup>	102 <sup>8</sup>	42	70.2	0.70	Gallatin <sup>1</sup>	102	55	78.0	0.29	
Medford †	97	36	70.1	0.99	Gayoso <sup>8</sup>	—	56	74.6	0.08	
Milan <sup>1</sup>	97 <sup>8</sup>	41	72.2	3.44	Glasgow	104	46	78.4	0.77	
Minneapolis a	97	45	72.3	0.55	Glensted	—	—	—	—	
Minneapolis b	97 <sup>8</sup>	45	71.7	0.43	Gordonville <sup>†</sup> <sup>8</sup>	50	72.2	1.44	Agee <sup>1</sup>	
Minneapolis City †	98	40	70.0	0.05	Gorin <sup>8</sup>	111	63	76.4	0.85	
Montevideo †	97	41	69.9	1.83	Greenville	106	48	78.0	1.08	
Morris †	94	41	70.8	1.71	Grove Dale	106	40	74.8	3.04	
New Richland <sup>14</sup>	102	52	71.2	—	Half Way	102	44	75.7	2.89	
New Ulm	96	50	75.0	—	Harrisonville	108	53	79.8	0.35	
Ortonville †	—	—	2.19	Hastain	102	41	78.8	1.20		
Park Rapids †	91	38	67.0	0.90	Hermann †	—	—	—	—	
Pine River <sup>1</sup>	88	49	67.0	1.01	Houston	103	39	73.5	2.46	
Pokegama Falls <sup>1</sup>	90 <sup>8</sup>	34	72.6	1.89	Houston (near)	—	—	—	—	
Red Lake †	90	41	66.2	1.90	Ironton <sup>1</sup>	100	47	73.8	1.19	
Red Wing †	—	—	—	Kidder	105	50	78.8	0.11		
Redwood Falls †	—	—	1.45	Lamar †	96	54	75.9	2.39		
Reeds Landing †	—	—	1.38	Lamont †	—	—	—	—		
Rolling Green †	—	—	0.49	Langdon	103	41	76.1	0.55		
Rush City †	94	38	67.0	0.55	La Plata <sup>1</sup>	98	60	76.9	1.15	
St. Charles <sup>1</sup>	99	35	70.8	0.31	Lebanon	100	48	77.4	0.88	
St. Cloud	94	50	71.2	0.90	Lexington	100	50	76.6	0.74	
St. Olaf	93	49	70.0	1.50	Liberity	103	50	79.1	0.29	
St. Peter †	96	37	71.2	2.06	Louisiana Bridge	—	—	3.28	Indianola <sup>8</sup>	
Sandy Lake Dam <sup>1</sup>	87	49	64.8	0.06	McCune <sup>1</sup>	103	45	75.3	0.27	
Sauk Center	96	42	67.2	1.11	Marceline	—	—	—	—	
Sunrise City <sup>8</sup>	98	32	68.5	0.75	Marshall	106	44	77.9	0.93	
Wabasha <sup>1</sup>	97	48	72.2	0.18	Maryville <sup>4</sup>	100	53	76.0	0.12	
Willmar †	94	42	69.8	3.46	Mexico <sup>1</sup>	105	47	77.4	0.78	
Winona	99	49	74.6	0.02	Mine La Motte †	97	47	74.8	0.92	
Mississippi	—	—	—	Mount Vernon	102	46	75.4	2.14		
Aberdeen †	103	58	79.4	7.18	Nevada	—	—	—	—	
Agricultural College	93	65	77.6	6.76	New Hartford <sup>1</sup>	105	62	75.8	2.58	
Batesville †	92	59	76.9	5.88	New Haven <sup>1</sup>	100	68	78.7	3.85	
Bay St. Louis †	93	70	78.9	8.16	New Madrid	101	54	79.1	2.80	
Biloxi †	94	70	80.9	9.17	New Palestine	—	—	—	—	
Briars	89	66	78.0	2.51	Oakfield †	100	55	76.6	1.01	
Brookhaven †	98	64	80.7	5.15	Oak Ridge <sup>4</sup>	53	76.5	0.90	North Loup †	
Canton †	91	66	77.8	3.16	Olden †	103	51	76.7	1.13	
Clarksville †	93	67	80.2	6.98	Oregon <sup>a</sup>	102	52	78.9	0.49	
Columbus †	100	64	80.3	5.35	Oregon <sup>b</sup>	105	51	77.8	0.05	
Corinth †	99	51	76.5	3.23	Oto	—	—	—	Plattsmouth †	
Crystal Springs †	94	63	78.1	6.31	Palmyra	—	—	1.10	Ravenna	
Dick Hill †	92	64	79.8	3.35	Panacea	96	59	77.4	4.73	
Egypt <sup>1</sup>	97	65	81.3	—	Phillipsburg <sup>1</sup>	100	58	75.7	2.44	
Enterprise †	94	65	78.0	8.70	Pickering <sup>4</sup>	50	73.6	0.18	Red Cloud	
Fayette <sup>1</sup>	91	67	78.6	5.99	Platte River <sup>4</sup>	100	50	74.2	2.26	
French Camps †	—	—	6.77	Poplar Bluff	100	60	76.8	2.39	Santee Agency <sup>1</sup>	
Greenville <sup>b</sup>	99	63	79.6	5.90	Potosi	95	43	71.9	4.52	
Hattiesburg †	97	67	81.1	4.43	St. Charles	99	53	75.1	3.05	
Haslehurst †	95	64	79.2	5.52	St. Joseph †	104	53	77.9	0.80	
Hernando †	96	59	78.6	5.33	St. Louis	101	49	75.6	1.53	
Holly Springs †	94	59	77.1	7.09	Sarcocystis <sup>8</sup>	104	52	76.4	1.54	
Itta Bena <sup>1</sup>	98	66	80.4	2.77	Scodale	100	55	76.5	3.27	
Jackson †	98	62	79.3	7.77	Sequoia <sup>8</sup>	100	51	76.7	1.13	
Kosciusko †	94	61	75.6	3.12	Sheldina	101	52	79.1	0.68	
Lake †	91	62	77.2	7.43	Shelbina	—	—	1.50	Whitman <sup>1</sup>	
Leakesville †	96	68	79.8	7.32	Steffenville	—	—	1.19	Wilcox	
Logtown †	91	67	79.6	6.30	Stelladaf	103	40	76.8	0.20	
Louisville †	98	62	76.6	7.17	Sublett	101	40	76.0	1.10	
Macon †	100	65	79.9	7.45	Tindall	—	—	—	Nevada	
Mayersville	96	62	78.2	4.96	Unionville	102	48	76.1	0.42	
Moss Point †	94	69	81.0	8.65	Vermont <sup>4</sup>	102	48	75.7	0.18	
Natchez <sup>1</sup>	94	65	79.6	6.30	Villas	104	54	77.1	1.03	
Okolona †	101	62	79.8	7.37	Virgil City	—	—	2.44	Wallace <sup>1</sup>	
Palo Alto †	94	64	78.0	6.31	Wurrensburg <sup>1</sup>	100	61	77.6	0.35	
Pontotoc †	98	66	78.4	4.54	Warrenton	101	53	77.0	3.21	
Port Gibson †	95	66	79.1	4.41	Westland	—	—	1.82	Weeping Water <sup>1</sup>	
Stonington <sup>1</sup>	90	68	78.6	5.46	Whiteside	103	55	76.6	5.64	
Thornton <sup>1</sup> <sup>8</sup>	94	62	79.0	2.50	Montana	—	—	—	Clover Valley <sup>1</sup>	
Topton <sup>8</sup>	92	70	75.6	4.40	Anaconda	—	—	0.74	Cranes Ranch	
University †	96	60	76.2	3.78	Billings	96	38	70.6	0.50	
Water Valley <sup>1</sup>	99	64	77.5	4.68	Boulder	92	42	65.6	0.70	
Waynesboro a	95	63	77.4	8.79	Bozeman	86	48	65.7	0.53	
Waynesboro b	97	62	79.2	9.28	Butte	91	44	65.9	0.87	
Woodville †	95	65	80.5	5.46	Cascade	102	43	73.2	0.65	
Zazoo City †	100	65	80.2	3.82	Cokedale <sup>4</sup>	106	50	66.4	1.25	
Missouri	—	—	—	Columbia Falls	94	39	63.2	0.31	Downdeyville	
Akron	—	—	1.22	Fort Custer †	99	40	72.2	0.00	Elko <sup>8</sup>	
Appleton City †	98	50	77.1	1.83	Fort Keogh	101	49	74.4	0.35	Ely
Arthur	—	—	—	Fort Logan †	92	38	61.6	0.30	Fenelon <sup>8</sup>	
Bagnell †	—	—	2.52	Fort Missoula	98	43	67.2	1.39	Genoa	
Bethany	105	45	77.6	0.29	Gawgo	102	43	73.2	0.37	Goleonda <sup>8</sup>
Big Piney	—	—	0.65	Glendale <sup>1</sup>	105	50	75.0	0.80	Gold Hill	
Birch Tree	100	49	75.0	5.02	Great Falls <sup>1</sup>	99	43	68.6	0.17	Goree
Bluffton <sup>1</sup>	100	56	78.6	1.51	Hogan <sup>1</sup>	96	41	67.6	1.85	Helleck <sup>1</sup>
Boonville †	—	—	1.40	Kipp †	95	35	62.2	0.65	Hawthorne <sup>1</sup>	
Brunswick	99	52	77.3	0.40	Martinsdale	95	39	66.4	0.82	Hot Springs <sup>1</sup>
Carrollton †	100	54	76.0	1.44	Marysville <sup>1</sup>	92	42	66.8	0.80	Humboldt <sup>8</sup>
Carthage	—	—	0.85	Musseleshell	106	37	72.7	—	Lewers Ranch	
Conception	99	50	79.8	0.65	Mississippi	—	—	—	Lovelock <sup>8</sup>	

*Meteorological record of voluntary observers, &c.—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean			Max.	Min.	Mean	
Montana—Cont'd.	0	0	0	Ins.	Pony †	102	52	80.2	0.88	Red Lodge †	107	50	74.4	0.12
Missouri—Cont'd.	97	48	72.8	T	Utica †	105	50	74.4	0.86	Virginia City	98	45	66.2	0.56
Nebraska	99	40	72.2	0.90	White Sul. Spgs †	88	41	64.6	0.85	Sunnyside	99	40	77.4	0.76
Nevada—Cont'd.	0	0	0	Ins.	Alceo <sup>1</sup>	106	61	78.1	0.38	St. Clair	98	49	75.6	0.00
Reno State Univ'ty	—	—	—	Redwood Valley †	105	54	81.5	0.05	St. Joe	98	30	61.6	0.56	
Ruby Valley †	—	—	—	Arborville <sup>1</sup>	105	45	77.0	0.12	Verdi <sup>8</sup>	93	49			

## Meteorological record of voluntary observers, &amp;c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			
	Max.	Min.	Mean			Max.	Min.	Mean			Max.	Min.	Mean			Max.	Min.	Mean	
<i>N. Mexico—Cont'd.</i>	o	o	o	Ins.	<i>New York—Cont'd.</i>	o	o	o	Ins.	<i>Ohio—Cont'd.</i>	o	o	o	Ins.	<i>Ohio—Cont'd.</i>	o	o	o	Ins.
Ciruela.....	.....	.....	.....	4.23	Wappingers Falls.....	91	42	69.5	1.17	Bloomington.....	98	36	70.6	2.84	Upper Sandusky.....	98	47	71.5	0.66
Deming <sup>8</sup> .....	93	69	82.5	0.95	Warwick.....	98	36	70.6	2.84	Bowling Green.....	98	36	70.6	2.84	Vanceburg.....	95	51	74.0	3.27
East Las Vegas <sup>1</sup> .....	84	46	65.5	4.05	Watertown.....	90	39	68.2	0.48	Bucyrus.....	95	42	71.1	0.65	Van Wert.....	100	42	71.7	1.00
Eddy <sup>1</sup> .....	96	59	77.1	0.57	Wedgewood.....	93	42	67.3	1.41	Caledonia <sup>1</sup> .....	92	42	71.0	1.00	Mettion.....	94	47	69.5	0.17
Estancia Springs <sup>1</sup> .....	90	42	63.8 <sup>a</sup>	4.62	Willets Point.....	91	55	71.4	0.21	Cambridge.....	97	44	69.9	1.86	Vickery.....	94	48	69.3	1.41
Fort Bayard.....	91	50	70.6	3.29	<i>North Carolina.</i>	.....	.....	.....	.....	Camp Dennison.....	102	45	70.0	2.61	Walnut.....	.....	.....	.....	2.41
Fort Stanton <sup>1</sup> .....	88	46	64.5	4.88	Asheville <sup>1</sup> .....	90	54	71.3	3.71	Canal Dover.....	99	50	72.8	0.50	Warren.....	98	40	69.0	0.03
Fort Wingate.....	92	48	70.0	3.33	Auburn <sup>1</sup> .....	99	60	76.3	7.72	Canton <sup>1</sup> .....	93	45	70.3	0.33	Warsaw.....	102	37	70.1	0.24
Gallisteo <sup>1</sup> .....	88	49	67.9	5.57	Bakersville <sup>1</sup> .....	96	60	75.2	4.21	Carlton.....	90	46	69.9	0.03	Wauseon.....	98	40	70.7	0.87
Gallinas Spring <sup>1</sup> .....	94	52	73.5	2.84	Blowing Rock <sup>1</sup> .....	90	48	70.0	7.38	Cedarville <sup>1</sup> .....	94	50	75.1	1.80	Waverly.....	100	47	73.7	3.06
Gila.....	.....	.....	.....	1.93	Cherry Fork.....	102	43	73.8	3.65	Celina.....	98	45	72.7	2.61	Waynesville.....	.....	.....	.....	1.84
Halls Peak <sup>1</sup> .....	83	31	52.8	3.39	Falkland <sup>1</sup> .....	94	60	75.9	19.25	Clarksville.....	98	48	73.5	2.57	Wellington.....	96	41	71.5	0.00
La Luz <sup>1</sup> .....	100 <sup>1</sup>	46 <sup>1</sup>	73.2 <sup>1</sup>	2.45	Flat Rock.....	88	50	70.4	0.82	Clifton.....	99	40	68.8	2.39	Westerville.....	93	46	68.9	0.90
Las Cruces <sup>1</sup> .....	99	52	75.4	4.15	Greenville.....	92	60	76.2	9.21	Coatlon.....	90	42	71.0	0.40	Weymouth.....	96	40	68.8	0.60
Lordsburg <sup>8</sup> .....	103	72	84.6	4.30	Currituck Inlet <sup>1</sup> .....	96	58	75.5	5.80 <sup>d</sup>	Cleveland.....	94	48	68.8	1.37	Wheeler <sup>1</sup> .....	.....	.....	.....	0.55
Los Lunas <sup>1</sup> .....	95	55	74.8	1.45	Experiment Farm.....	95	58	75.6	5.79	Dayton <sup>a</sup> .....	98	45	73.4	5.10	Willoughby.....	.....	.....	.....	0.90
Monero <sup>1</sup> .....	88	36	62.9	2.87	Fruit Bluff <sup>1</sup> .....	94	60	75.9	19.25	Dayton <sup>b</sup> .....	99	40	74.3	2.63	Wooster <sup>1</sup> .....	96	41	69.2	0.76
Pecos.....	.....	.....	.....	3.10	Goldsboro <sup>1</sup> .....	92	60	76.2	9.05	Delance.....	95	41	69.4	2.50	Youngstown.....	94	44	68.6	0.72
Pojoaque.....	.....	.....	0.93	Greenville.....	92	60	76.2	9.21	Denison.....	95	50	72.4	0.50	Zanesville <sup>1</sup> .....	.....	.....	.....	0.90	
Pincon <sup>1</sup> .....	.....	.....	1.84	Greenville.....	92	60	76.2	9.21	DeLance.....	95	50	72.4	0.50	Oklahoma	.....	.....	.....	.....	
Roswell <sup>1</sup> .....	94	53	72.3	2.49	Flat Rock.....	88	50	70.4	0.82	Findlay.....	94	40	69.6	0.17	Alva <sup>1</sup> .....	109	50	81.6	1.80
San Marcial <sup>1</sup> .....	92	51	72.8	1.38	Goldsboro <sup>1</sup> .....	92	60	76.2	9.21	Fostoria.....	92	36	70.5	2.63	Anadarko <sup>1</sup> .....	107	50	78.4	2.78
Socorro <sup>1</sup> .....	95	54	74.4	2.58	Henderson <sup>1</sup> .....	97	58	75.6	4.78	Frankfort.....	91	53	74.2	5.16	Arapaho <sup>1</sup> .....	103	55	77.6	0.00
Springer <sup>1</sup> .....	90	48	72.3	2.10	Hughes <sup>1</sup> .....	82	51	65.8	7.09	Garretttsville.....	94	41	67.5	0.23	Britton <sup>1</sup> .....	.....	.....	.....	0.02
Sulphur Hot Spgs <sup>1</sup> .....	80	38	58.2	6.45	Horse Cove <sup>1</sup> .....	87	55	70.4	8.56	Elyria.....	95	47	70.3	1.60	Burnett <sup>1</sup> .....	103	51	79.0	0.81
Taos <sup>1</sup> .....	95	40	68.2	2.11	Lenoir <sup>1</sup> .....	90	59	72.9	4.50	Fairport Harbor <sup>10</sup> .....	86	50	69.0	0.50	Clifton <sup>1</sup> .....	108	47	80.2	0.35
<i>New York.</i>	.....	.....	.....	.....	Lilesville.....	95	58	75.2	4.00	Fayetteville.....	96	45	73.5	2.39	Fort Reno <sup>1</sup> .....	101	56	78.6	1.01
Adams Center.....	.....	.....	0.51	.....	Littleton <sup>1</sup> .....	95	58	75.2	4.00	Findlay.....	94	40	69.6	0.17	Fort Sill.....	99	57	78.1	2.47
Addison.....	88	40	65.7	1.44	Louisburg <sup>1</sup> .....	93	50	74.4	4.81	Fostoria.....	92	36	70.5	0.30	Supply <sup>1</sup> .....	102	55	77.1	0.26
Akron.....	.....	.....	0.47	.....	Lumberton <sup>1</sup> .....	96	61	78.6	9.21	Frankfort.....	91	53	74.2	5.16	Guthrie <sup>1</sup> .....	104	53	81.4	0.15
Alfred Center.....	86	40	64.9	0.56	Lynn <sup>1</sup> .....	94	60	72.0	3.73	Garretttsville.....	91	44	69.3	1.63	Kekuk Falls <sup>1</sup> .....	104	48	78.0	1.14
Angelica <sup>1</sup> .....	86	37	62.2	2.26	Mocksville <sup>1</sup> .....	91	60	74.0	4.04	Georgetown.....	101	55	70.7	1.63	Mangum <sup>1</sup> .....	103	62	80.2	3.05
Arcade.....	88	40	63.5	1.57	Moncure <sup>1</sup> .....	94	57	75.0	5.00	Granville.....	96	42	70.3	1.66	Ponca <sup>1</sup> .....	102	56	79.2	0.33
Arkwright.....	82	48	65.0	.....	Mount Airy <sup>1</sup> .....	97	51	72.9	8.83	Gratiot.....	95	45	70.5	0.86	Pond Creek <sup>1</sup> .....	105	52	79.2	2.10
Atlanta.....	.....	.....	1.60	.....	Mount Pleasant.....	95	58	75.8	2.95	Greenfield.....	95	50	72.4	2.45	Stillwater <sup>1</sup> .....	104	50	78.8	0.79
Baldwinsville.....	89	48	66.3	1.64	Murphy <sup>1</sup> .....	97	52	72.1	7.21	Green Hill.....	97	38	70.1	0.53	Winnifield <sup>1</sup> .....	104	62	81.6	0.85
Bedford.....	87	44	68.4	1.53	Newbern <sup>1</sup> .....	94	62	77.2	7.21	Greenville.....	91	45	70.1	2.34	Oregon	.....	.....	.....	.....
Big Sandy <sup>10</sup> .....	86	46	68.2	.....	Oak Ridge <sup>1</sup> .....	95	59	75.6	4.00	Guyesville.....	97	45	71.9	1.59	Albany a <sup>1</sup> .....	98	46	69.1	0.10
Binghamton.....	89	41	66.2	1.47	Panego <sup>1</sup> .....	96	61	78.6	14.99	Hackney.....	97	45	72.9	1.48	Albany b <sup>1</sup> .....	98	52	69.2	0.10
Bovina Center.....	.....	.....	1.59	.....	Pittsboro.....	92	59	73.4	5.72	Hanging Rock.....	93	45	72.9	2.25	Arlington <sup>1</sup> .....	101	52	75.5	T.
Boyd's Corners.....	.....	.....	1.45	.....	Rockingham <sup>1</sup> .....	99	59	77.4	8.88	Harrow.....	97	48	68.3	0.18	Ashland a <sup>1</sup> .....	98	57	75.2	0.00
Brentwood.....	86	48	68.2	2.00	Roxboro <sup>1</sup> .....	95	55	74.3	4.74	Hedges.....	97	39	71.0	0.92	Ashland b <sup>1</sup> .....	100	41	70.0	0.00
Brookfield.....	84	40	63.7	1.02	Saxton <sup>1</sup> .....	91	63	76.5	3.75	Hillhouse.....	94	43	68.0	0.63	Aurora <sup>1</sup> .....	95	55	72.1	0.00
Canton <sup>1</sup> .....	89	36	62.8	0.85	Selina.....	93	58	75.8	2.08	Hillsboro.....	103	40	74.4	1.26	Bandon <sup>1</sup> .....	78	41	59.0	0.00
Carmel.....	.....	.....	2.53	.....	Shelby <sup>1</sup> .....	96	58	76.2	13.71	Hiram.....	93	48	70.2	0.22	Bay City.....	83	46	61.4	0.27
Charlotte <sup>10</sup> .....	82	46	64.7	.....	Skyuka.....	86	59	74.5	4.62	Jacksonboro.....	102	50	70.3	0.75	Glenora <sup>1</sup> .....	106	52	69.5	0.00
Cherry Creek.....	.....	.....	0.98	.....	Sloan.....	95	59	67.1	3.91	Kenton <sup>1</sup> .....	100	44	71.9	1.66	Grants Pass a <sup>1</sup> .....	98	56	70.0	0.01
Cooperstown <sup>1</sup> .....	83	42	63.2	1.88	Snapstone M <sup>1</sup> .....	95	55	75.0	11.54	Kilbourne.....	95	39	69.3	1.63	Grants Pass b <sup>1</sup> .....	96	52	72.7	0.00
Cortland.....	84	47	64.1 <sup>a</sup>	1.45	Souther Pines <sup>1</sup> .....	99	58	77.2	7.13	Killbuck.....	99	44	71.1	0.70	Cascade Locks <sup>1</sup> .....	106	50	69.9	0.00
De Kalb Junction.....	.....	.....	0.94	.....	Tarboro.....	97	58	77.1	13.32	Comstock <sup>1</sup> .....	104	48	68.3	0.35	Crook.....	95	34	66.6	0.96
Demarest.....	.....	.....	0.94	.....	Waynesville <sup>1</sup> .....	90	49	68.5	4.37	Condon.....	96	39	68.6	0.15	Marietta a <sup>1</sup> .....	98	52	69.2	0.06
Dunkirk.....	79	53	67.2 <sup>a</sup>	1.00	Weldon <sup>1</sup> .....	95	58	75.6	13.32	Marion.....	97	42	70.8	1.28	Gardiner.....	82	50	63.0	0.60
Eden Center.....	91	39	62.7	1.45	Willeyton <sup>1</sup> .....	95	58	75.6	5.70	Millford.....	95	42	69.7	0.95	Glenora <sup>1</sup> .....	106	40	67.0	0.35
Ellis.....	.....	.....	1.44	.....	North Dakota.	.....	.....	.....	.....	Milligan.....	99	42	71.3	1.85	Grants Pass a <sup>1</sup> .....	96	42	68.2	0.00
Elmira <sup>1</sup> .....	89	45	67.7	1.23	Fort Stevenson <sup>1</sup> .....	93	41	71.4	2.27	Millport.....	94	38	69.7	0.30	Grants Pass b <sup>1</sup> .....	96	52	72.7	0.00
Factoryville <sup>1</sup> .....	90	38	66.5	2.55	Fruit Yates <sup>1</sup> .....	102	41	72.4	2.10	Montpelier.....	96	38	69.7	1.19	Happy Valley <sup>1</sup> .....	95	35	65.9	0.27
Fort Niagara <sup>1</sup> .....	89	47	68.8	0.63	Grafton <sup>1</sup> .....	100	34	68.1	1.33	Napoleon.....	95	44	72.8	1.20	Heppner <sup>1</sup> .....	99	44	66.9	T.

*Meteorological record of voluntary observers, &c.—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean			Max.	Min.	Mean			Max.	Min.	Mean	
Pennsylvania.	0	0	0	Ins.	S. Carolina—Cont'd.	0	0	0	Ins.	Texas—Cont'd.	0	0	0	Ins.	Utah—Cont'd.	0	0	0	Ins.
Altoona	92	53	72.7	3.18	Hollands Store†	94	61	76.7	3.00	Austin & *†	96	68	81.8	...	Snowville†	93	46	69.5	0.14
Aqueduct	97	42	72.0	2.67	Kingtree a†	90	64	80.9	5.07	Beaumont *†	84	74	77.9	9.77	Soldier Summit†	83	26	54.3	6.17
Beaver Dam†	...	...	0.57	...	Kingtree b†	...	...	5.72	...	Bellville *†	78	80.9	7.46	...	Terrace *†	99	...	82.1	0.00
Blooming Grove*	93	50	67.5	1.62	Little Mountain	99	58	78.9	8.13	Belton†	102	65	81.4	3.88	Thistle†	102	44	70.4	1.24
Bloomsburg	92	46	69.6	2.33	Longshore†	95	58	76.2	3.66	Boerne *†	101	65	76.3	5.87	Vermont.	...	...	...	...
Brookville†	...	...	0.40	...	McCormick *†	90	63	76.7	7.75	Brady†	95	61	78.2	2.69	Brattleboro	90	40	67.4	0.32
Browers Lock	...	...	1.24	...	Mount Carmel†	...	...	7.78	...	Brazoria†	91	60	78.9	11.50	Burlington†	83	45	66.0	1.49
Carlisle a	95	48	71.4	2.92	Pinopolis*†	90	67	77.4	9.10	Brenham†	98	68	82.1	8.02	Cornwall	86	42	64.9	2.35
Cassandra	87	40	70.0	2.37	Port Royal†	98	69	81.7	10.97	Burnet *†	93	67	80.6	6.03	Enosburg Falls†	...	...	...	3.06
Chambersburg†	93	48	70.4	4.79	St. George†	96	62	79.6	10.43	Camp Eagle Pass	105	66	84.2	5.97	Hartland†	86	34	60.4	2.58
Clarion†	...	...	0.44	...	St. Matthews†	99	65	79.8	10.27	Childress†	98	59	78.7	2.26	Irasburg†	82	33	59.7	2.86
Coatesville	90	48	70.6	2.89	St. Stephens†	...	...	6.46	...	Coleman	...	...	7.77	...	Jacksonville	87	...	...	...
Confluence†	...	...	1.37	...	Santuck*†	90	62	75.3	4.75	Columbiat	93	68	80.0	7.28	Norwich*	83	38	59.3	2.55
Coopersburg	87	50	70.5	2.43	Shaws Fork†	102	68	80.4	4.40	Corsicana a†	...	...	4.37	...	Simonsville	86	35	61.4	2.92
Davis Island Dam†	...	...	0.68	...	Simpsonville†	100	59	79.0	0.88	Corsicana b†	96	60	78.8	5.09	Stratford*†	80	41	62.0	2.95
Doylestown	...	...	2.77	...	Society Hill†	91	61	75.9	12.20	Chero†	90	70	82.2	6.33	Vernon*†	89	37	67.5	0.57
Drifton	...	92°	51°	69.8*	Spartanburg†	100	60	79.0	1.49	Dallas†	99	58	78.5	5.44	Wells	84	37	63.9	2.41
Du Bois†	...	...	0.74	...	Statesburg†	89	62	76.5	1.85	Devine†	95	62	78.9	2.65	Woodstock	87	36	63.1	2.95
Dyberry†	90	37	64.6	1.27	Timmonsville*†	96	69	81.5	...	Forestburg†	99	60	77.8	3.51	Virginia.	...	...	...	...
East Mauch Chunk	94	44	68.8	1.86	Trenton	...	...	1.73	...	Fort Brown†	95	69	82.3	2.78	Abingdon†	...	...	...	5.45
Easton	89	53	70.6	2.04	Trial†	96	64	79.2	8.11	Fort Clark	102	67	81.4	8.55	Alexandria	96	55	75.6	1.38
Edinboro*†	88	44	66.8	1.80	Watts*†	95	61	77.5	9.23	Fort Hancock	104	50	77.3	2.07	Bedford City†	92	56	72.8	4.54
Elwood Junction†	...	...	0.39	...	Yorkville†	93	61	76.0	4.57	Fort McIntosh	101	70	84.7	4.19	Big Stone Gap†	93	46	69.7	4.17
Emporium	89	43	66.4	1.37	South Dakota.	...	...	...	...	Fort Ringgold†	100	70	84.6	3.50	Birdsnest*†	90	61	74.5	7.85
Fks of Neshaminy†	70.9	2.17	...	...	Aberdeen	96	40	71.7	1.73	Fredericksburg†	96	54	74.0	3.75	Blacksburg	86	48	68.8	2.00
Frederick	...	...	2.75	...	Alexandria†	104	38	73.2	3.52	Graham Forge	92°	50	72.0	1.61	Buckingham†	94	52	72.8	3.03
Freeport†	...	0.17	...	...	Armour†	102	40	70.4	1.14	Hot Springs	88	51	72.8	1.59	Charlottesville	89	51	73.0	1.38
Gettysburg†	...	2.03	...	...	Asheroff†	102	37	71.0	0.42	Christiansburg†	89	51	73.0	1.38	Clarksburg†	...	...	...	3.59
Grampian	88	48	69.0	1.15	Bowdrie*†	95	53	73.8	1.05	Fort Hancock	104	50	77.3	2.07	Dale Enterprise†	96	46	71.2	1.70
Greensboro†	...	...	1.94	...	Brookings†	97	30	67.6	...	Fort Ringgold†	100	70	84.6	3.50	Danville†	93	57	74.8	3.31
Greenville*	91	42	67.0	0.54	Castlegrove†	96	32	68.9	1.81	Fredericksburg†	96	62	78.5	5.11	Fredericksburg†	96	54	74.0	3.75
Hamburg	95	48	71.4	2.24	Clark†	103	40	72.8	1.92	Graham†	104	58	79.6	3.54	Grahams Forge	92°	50	72.0	1.61
Hollidaysburg	95	41°	68.5	2.47	Cross†	89	37	61.5	2.02	Grape Vine†	101	60	79.6	3.94	Hampton	93	51	75.1	1.38
Honesdale	88	44	66.2	1.53	De Smet†	103	40	74.1	2.15	Hale Center†	90	60	74.1	4.00	Hot Springs	88	46	66.8	1.03
Huntingdon†	98	42	69.5	1.26	Faulkton†	99	40	72.0	1.65	Hallettsville†	93	63	79.5	8.91	Irwin†	95	58	75.0	2.72
Johnstown†	95	45	71.2	1.20	Flandreau†	104	39	72.4	3.37	Happy†	94	51	73.5	3.63	Lexington†	95	55	73.9	4.54
Kane	88	41	65.8	1.45	Forestburg†	105	35	72.4	0.55	Hartley†	102	40	70.5	1.58	Marion†	94	51	74.2	3.43
Kennett Square	80	48	70.7	2.78	Forest City†	101	45	75.2	1.01	Haskell†	98	62	80.8	2.00	Nottoway	99	54	76.0	2.73
Kilmers*†	99	53	72.3	2.00	Fort Meade	97	47	73.3	0.42	Hearne†	101	62	78.8	5.20	Petersburg†	95	54	74.6	3.56
Lansdale	...	...	3.10	...	Fort Sully†	102	43	77.5	0.65	Hewitt†	...	...	2.90	...	Richmond† (near)	99	50	74.6	4.93
Lebanon	90	48	69.7	4.17	Gary†	97	40	70.3	0.90	Houston†	97	65	78.8	5.75	Rocky Mount†	94	57	75.4	1.32
Le Roy†	89	47	66.7	1.23	Greenwood	105	45	75.3	0.55	Huntsville†	99	64	81.1	5.13	Salem†	93	57	74.8	1.96
Lewisburg*	95	46	70.0	2.05	Highmore†	102	44	74.1	0.01	Jefferson*†	93	66	80.2	4.05	Spottswood†	93	54	74.4	6.03
Lock Haven†	93	32	63.3	5.51	Hitchcock†	...	...	1.74	...	Jamestown†	101	66	79.7	4.87	Stanardsville†	93	54	72.5	3.91
Lock No. 4†	91	49	72.0	1.63	Hitch City†	102	41	75.2	0.15	Lampasas*†	...	...	...	...	Stephens City†	94	55	73.8	1.78
Lycippus	91	49	72.0	1.09	Howard†	100	37	72.2	0.33	Leakey†	93	59	80.1	9.80	Warrenston†	90	51	72.9	1.07
Mahoning†	...	...	0.30	...	Kimball†	104	48	76.2	0.43	Llano*†	103	59	82.3	5.70	West Ferndale†	92	43	74.0	2.06
Oil City†	...	...	0.41	...	Millbank†	97	43	71.4	0.70	Longview†	99	61	80.8	0.34	Whitetailed Depot†	101	46	75.6	2.66
Ottsville	...	...	1.93	...	Orlearchs†	102	41	72.8	0.22	Luling†	100	67	81.7	5.14	Wytheville†	84	48	69.0	2.95
Parker†	...	...	1.10	...	Piedmont†	...	...	1.30	...	Marshall†	93	60	78.5	4.75	Washington.	...	...	...	...
Philadelphia*	...	...	1.94	...	Plankinton†	105	42	75.4	0.66	Memarvile*†	96	64	76.3	4.04	Aberdeen†	91	46	64.4	0.25
Philadelphia b	90	55	72.4	2.57	Rosebud†	104	38	75.0	1.30	Midland†	101	52	77.9	0.97	Anacortes	...	...	...	0.12
Phoenixville	90	48	71.2	1.64	Shiloh†	105	36	74.0	0.01	Mountain Spring†	100	60	79.0	3.38	Bridgeport†	102	35	73.0	0.00
Point Pleasant	...	...	1.30	...	Silver City†	...	...	3.75	...	New Brunfels†	95	65	78.9	8.12	Blaine†	84	39	62.2	0.03
Pottstown	90	51	71.6	2.01	Sioux Falls†	102	39	72.9	1.29	Ochiltree†	...	...	5.93	...	Chehalis†	93	43	66.8	1.14
Quakertown	91	45	69.3	3.09	Spearsfish†	99	49	73.8	0.33	Orange†	94	66	80.2	3.18	Coffax†	98	42	66.4	0.03
Reading*	...	...	7.06	2.84	Tyndall†	103	44	75.0	2.07	Rockport*†	103	55	75.2	8.10	Connelon††	99	42	70.8	0.01
Ridgway†	95	38	66.1	1.12	Webster†	99	37	71.7	1.60	Rock Springs†	94	72	84.1	...	Davenport†	95	43	68.6	0.11
Saugerstown	86	46	67.6	1.57	Wentworth†	100	30	70.6	1.26	Round Rock†	104	68	85.1	4.43	Dayton†	101	47	73.1	T.
Salem Corners	...	...	1.54	...	Wessington†	101	30	70.6	0.91	Wacc†	95	65	81.8	8.00	East Sound†	81	47	61.3	0.14
Salisbury†	...	...	1.72	...	Wessington Spgs†	101	44	75.4	0.82	Weatherford†	96	59	78.4	6.60	Elbe	...	...	...	0.64
Seisholtzville	...	...	6.92	2.47	Andersonville*†	98	62	75.4	3.25	Wichita Falls†	104	62	80.6	3.34	Ellensburg†	90	42	68.3	0.00
Selins Grove	...	...	5.55	3.15	Arlington†	98	58	77.0	3.23	Blue Creek†	106	63	80.6	0.00	Ferry†	93	44	66.8	0.23
Shinglehouse	89	35	63.8																



TABLE IV a.—Hourly sunshine as deduced from sunshine recorders, August, 1894.

Station.	Instrument.	Percentage for each hour of local mean time ending with the respective hour.																		Monthly summary.							
		A. M.									P. M.									Instrumental record.							
		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Actual.	Possible.	Per cent of possible.	Personal estimate.		
Baltimore, Md.	T.	38	40	52	63	70	85	88	86	88	87	87	87	87	87	77	77	55	55	55	55	57	425.4	72	63		
Bismarck, N. Dak.	T.P.	66	45	34	55	72	82	81	73	74	88	64	56	42	44	75	75	32	32	32	32	7	274.7	62	70		
Boston, Mass.	T.	30	23	46	54	69	79	82	83	83	80	79	72	59	54	54	54	32	32	32	32	32	441.5	64	44		
Buffalo, N. Y.	T.	23	25	24	48	78	84	92	94	96	95	93	88	81	75	50	50	32	32	32	32	35	297.4	69	44		
Chicago, Ill.	T.	59	42	40	46	66	81	85	93	99	95	94	85	85	69	56	56	67	67	67	67	43	313.1	73	54		
Cincinnati, Ohio	T.	73	75	83	83	91	90	84	85	90	87	84	74	74	74	74	74	74	74	74	74	74	345.6	82	67		
Cleveland, Ohio	T.	40	47	58	61	71	70	68	74	72	75	71	67	54	52	48	270.1	428.8	63	54	54	54	297.8	424.9	70	54	
Colorado Springs, Colo.	T.	77	75	76	86	94	89	89	82	70	66	53	53	45	45	45	38	38	38	38	38	33	346.0	424.6	77	54	
Columbus, Ohio	T.	42	45	64	78	94	92	95	98	94	91	91	83	73	59	59	59	59	59	59	59	59	59	329.2	423.6	69	56
Denver, Colo.	T.P.	49	68	80	85	86	89	91	75	72	64	60	58	58	58	58	58	58	58	58	58	58	330.4	428.7	77	56	
Des Moines, Iowa	T.	99	57	59	59	74	84	91	94	97	95	85	84	73	73	73	73	73	73	73	73	73	249.7	431.6	58	54	
Detroit, Mich.	T.	15	11	14	32	63	75	80	81	81	80	75	73	80	81	83	83	83	83	83	83	83	323.1	421.1	77	67	
Dodge City, Kans.	T.	68	83	86	81	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	209.6	364.6	48	39	
Eastport, Me.	T.P.	62	32	30	37	46	55	62	68	63	65	58	56	39	35	35	35	35	35	35	35	35	206.4	408.4	51	50	
Galveston, Tex.	T.P.	22	44	49	54	51	59	55	55	55	55	55	55	55	47	47	47	47	47	47	47	47	47	348.2	440.6	74	57
Helena, Mont.	T.P.	83	77	76	84	83	86	86	83	83	76	77	75	75	75	75	75	75	75	75	75	75	348.0	424.5	82	75	
Kansas City, Mo.	T.P.	82	75	82	86	86	86	88	85	85	85	85	88	88	88	88	88	88	88	88	88	88	79	348.0	424.5	82	75
Key West, Fla.	T.	74	77	77	70	80	86	86	87	86	87	85	85	85	85	85	85	85	85	85	85	85	318.2	402.7	79	47	
Little Rock, Ark.	T.P.	53	55	56	67	75	79	79	83	83	75	70	60	52	37	37	36	36	36	36	36	36	263.8	416.1	63	40	
Memphis, Tenn.	T.P.	28	37	55	63	63	62	62	69	69	75	75	77	70	50	50	50	50	50	50	50	50	238.6	417.1	57	60	
New Haven, Conn.	T.	0	24	26	57	78	85	85	85	86	91	92	96	92	88	88	88	88	88	88	88	88	303.8	429.1	71	60	
New Orleans, La.	T.	43	44	63	79	84	84	84	86	86	79	75	74	65	65	65	65	65	65	65	65	65	259.4	408.6	66	55	
New York, N. Y.	T.	0	17	26	53	70	78	80	95	94	94	92	90	82	53	53	53	53	53	53	53	53	294.4	427.5	69	51	
Philadelphia, Pa.	T.	32	45	49	65	77	85	88	92	92	92	91	76	67	40	40	40	40	40	40	40	40	304.4	425.0	72	45	
Portland, Me.	T.	5	27	53	64	75	87	85	85	85	83	78	77	65	45	24	24	24	24	24	24	24	264.6	432.0	61	51	
Portland, Ore.	T.P.	34	59	59	52	58	67	76	73	80	84	86	86	82	75	75	75	75	75	75	75	75	314.4	436.7	72	75	
Rochester, N. Y.	T.	41	36	35	43	58	64	69	75	70	68	65	65	64	48	35	32	32	32	32	32	32	236.3	432.1	55	55	
St. Louis, Mo.	T.	60	70	70	85	90	94	89	88	88	94	91	85	79	60	60	60	60	60	60	60	60	352.8	423.1	83	70	
Salt Lake City, Utah	T.P.	100	60	61	80	97	88	87	88	91	92	84	86	73	56	48	47	47	47	47	47	47	328.8	428.8	78	63	
San Diego, Cal.	T.P.	6	18	31	53	72	84	85	86	85	87	86	85	82	51	51	51	51	51	51	51	51	270.3	415.5	65	56	
San Francisco, Cal.	T.P.	3	9	23	31	54	73	79	83	83	84	84	80	70	54	41	41	41	41	41	41	41	228.7	421.0	54	56	
Santa Fe, N. Mex.	T.P.	52	51	67	83	82	81	84	83	83	82	82	82	82	82	82	82	82	82	82	82	82	235.5	418.8	56	42	
Savannah, Ga.	T.P.	38	47	59	66	71	89	84	84	88	88	88	88	88	88	88	88	88	88	88	88	88	226.1	415.9	54	52	
Spokane, Wash.	T.P.	47	41	44	69	72	81	86	79	79	76	76	78	72	62	62	62	62	62	62	62	62	300.2	442.0	68	67	
Tucson, Ariz.	T.P.	45	48	62	77	81	78	78	88	88	88	88	88	88	88	88	88	88	88	88	88	88	275.5	413.5	67	46	
Vicksburg, Miss.	T.	49	39	44	67	83	84	91	94	90	83	73	73	73	73	73	73	73	73	73	73	73	279.4	413.2	68	65	
Washington, D. C.	T.P.	20	45	65	70	69	73	79	81	77	79	79	79	79	79	79	79	79	79	79	79	79	180.8	416.5	43	55	
Wilmington, N. C.	T.	30	29	34	57	64	64	63	70	63	54	54	54	54	54	54	54	54	54	54	54	54	302.0	442.0	65	55	

\*From August 13 to 31, inclusive, the values were determined from eye observation.

TABLE IV b.—*Hourly precipitation, August, 1894.*

Station.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Total.		
Atlanta, Ga.	0.02	0.03	T.	0.01	T.	0.05	0.09	0.03	0.02	0.27	0.01	0.37	0.30	0.07	0.05	0.49	0.48	0.33	0.35	0.50	0.01	0.06	0.21	3.75	
Baltimore, Md.	0.05	0.06	0.04	0.03	0.00	0.01	0.06	0.10	0.03	0.04	0.07	0.02	0.02	0.01	0.09	0.03	0.04	0.02	0.04	0.31	0.24	0.04	1.41		
Bismarck, N. Dak.	0.00	0.00	0.00	0.00	0.00	0.00	0.12	T.	0.00	0.00	T.	0.00	0.00	0.00	0.01	0.22	0.22	0.01	0.00	0.02	0.00	0.01	0.01	3.00	
Boston, Mass.	T.	T.	T.	0.01	0.29	0.16	0.04	0.02	0.04	T.	T.	0.02	I. 12	0.75	0.45	0.06	T.	T.	0.00	0.01	T.	0.02	0.01	0.56	
Buffalo, N. Y.	0.00	0.00	0.08	0.01	0.05	0.01	0.00	0.00	0.00	0.20	0.01	0.00	0.01	0.06	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.17		
Chicago, Ill.	0.00	0.00	0.00	0.03	0.00	0.05	0.01	0.06	0.18	0.22	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56		
Cincinnati, Ohio.	0.04	0.02	0.00	0.00	T.	T.	0.00	T.	0.00	0.00	T.	0.00	0.01	0.00	0.00	0.00	T.	T.	0.00	0.00	0.00	0.03	0.00	0.00	
Cleveland, Ohio.	0.03	0.02	T.	T.	0.01	0.01	T.	T.	0.00	0.00	T.	0.00	0.00	0.00	0.00	0.00	T.	T.	0.00	0.00	0.00	0.00	0.00	1.82	
Denver, Colo.	0.02	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.02	T.	0.00	0.00	0.00	0.00	0.00	T.	0.00	0.01	0.05	0.03	0.00	0.02	1.84		
Detroit, Mich.	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.01	0.10	0.00	T.	0.00	0.00	0.00	0.00	0.00	T.	0.00	0.00	0.00	0.00	0.00	0.16		
Dodge City, Kans.	0.08	T.	0.02	T.	T.	T.	0.01	T.	T.	T.	T.	0.00	0.00	0.00	0.00	0.00	T.	T.	0.00	0.00	T.	0.03	0.00	0.16	
Duluth, Minn.	0.02	0.08	0.16	0.15	0.01	0.08	0.00	0.00	0.00	0.01	T.	0.01	0.01	0.00	0.00	0.00	T.	0.00	0.00	0.00	T.	0.00	0.00	1.02	
Eastport, Me.	0.12	0.30	0.14	0.15	0.05	0.09	0.01	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	T.	0.13	0.13	0.00	0.00	0.00	0.12	0.15	1.33	
Galveston, Tex.	0.20	0.20	0.20	0.20	0.20	0.22	0.47	0.23	1.26	0.27	0.60	1.61	0.15	0.19	0.44	0.39	0.53	0.12	0.00	0.50	0.77	0.21	0.46	9.09	
Indianapolis, Ind.	0.00	0.00	0.15	0.02	0.00	0.04	0.07	0.01	0.00	0.02	0.06	0.02	0.00	0.00	0.00	0.00	T.	0.10	0.00	0.05	0.10	0.07	0.02	0.00	
Jacksonville, Fla.	0.49	0.13	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	T.	0.17	1.11	0.44	1.85	2.10	0.68	0.90	0.94	0.31	0.04	0.00	9.24	
Jupiter, Fla.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.05	0.00	0.00	0.00	0.00	0.00	T.	0.24	0.50	0.30	0.05	0.00	0.00	0.00	1.54	
Kansas City, Mo.	0.01	0.04	0.03	T.	0.00	0.00	T.	T.	0.00	0.10	0.05	0.00	0.00	0.00	T.	T.	0.00	0.00	T.	T.	0.05	T.	0.00	0.00	
Key West, Fla.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.33	
Marquette, Mich.	0.01	0.06	0.04	T.	0.00	0.01	T.	0.01	0.02	0.05	0.10	0.11	0.00	0.05	0.06	0.11	T.	0.51	0.38	0.01	0.03	0.07	0.14	0.00	0.00
Memphis, Tenn.	T.	0.12	0.32	0.21	0.16	0.26	0.09	0.12	0.12	0.07	0.47	0.10	T.	0.03	0.07	0.06	0.05	0.05	0.13	1.49	0.97	0.21	0.04	T.	5.14
Milwaukee, Wis.	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.00	T.	T.	0.00	0.00	0.05	0.02	0.00	T.	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.29
Nantucket, Mass.	0.09	0.09	0.10	0.05	0.18	0.12	0.13	0.11	0.15	0.01	0.01	0.02	0.01	0.04	0.02	0.01	0.02	T.	T.	0.00	0.00	0.01	0.20	0.00	0.00
Nashville, Tenn.	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.02	0.05	0.03	0.07	0.03	0.79	0.54	0.35	0.22	0.04	0.03	0.02	T.	0.00	0.00	2.43	
New Orleans, La.	T.	T.	0.02	0.00	0.01	0.05	0.00	0.02	0.12	0.72	0.04	T.	0.00	0.00	0.00	0.02	0.03	0.00	0.40	0.06	T.	T.	T.	T.	1.75
New York, N. Y.	T.	T.	0.02	0.00	0.01	0.05	0.00	0.02	0.12	0.72	0.04	T.	0.00	0.00	0.00	0.02	0.03	0.00	0.40	0.06	T.	T.	T.	T.	8.49
Norfolk, Va.	0.17	0.12	0.15	0.17	0.31	0.26	0.20	0.03	0.08	0.04	0.18	0.90	2.23	0.58	0.05	0.12	0.34	0.49	0.26	0.74	0.37	0.15	0.30	0.10	8.49
Omaha, Nebr.	0.00	0.01	0.01	0.01	0.13	0.05	0.09	T.	0.00	0.00	0.00	T.	0.00	0.00	T.	T.	T.	T.	0.00	0.00	0.00	0.00	0.00	0.34	
Philadelphia, Pa.	T.	0.06	0.08	0.02	0.08	0.05	0.03	0.23	0.32	0.18	0.08	0.01	0.05	T.	0.13	0.03	0.04	0.01	T.	0.03	0.01	0.09	T.	0.01	2.15
Pittsburg, Pa.	0.15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	T.	0.00	0.00	0.01	T.	0.00	0.00	T.	0.01	0.03	0.01	0.00	0.00	0.00	0.00	0.45	
Portland, Me.	0.02	0.01	0.02	0.03	0.06	0.05	0.07	0.20	0.07	0.57	0.07	0.79	0.39	0.09	0.38	0.08	0.08	T.	T.	T.	0.01	0.03	T.	3.27	
Portland, Oreg.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	T.	T.	0.00	0.00	0.00	T.	2.7	
Rochester, N. Y.	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	T.	0.01	0.00	T.	0.04	0.03	0.00	0.00	0.00	T.	0.01	0.01	0.00	0.00	0.00	0.00	0.68
St. Louis, Mo.	0.00	0.00	0.00	0.00	0.00	0.04	0.57	0.34	0.04	0.02	0.03	T.	0.01	0.03	0.02	0.01	0.00	T.	T.	0.00	0.00	0.00	0.01	0.00	1.66
St. Paul, Minn.	0.03	T.	T.	T.	0.16	0.04	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	T.	T.	0.00	0.00	0.00	0.02	0.00	0.35
Salt Lake City, Utah.	0.00	0.00	0.03	0.05	0.02	0.01	T.	T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	T.	T.	0.37	0.03	0.02	T.	0.00	0.00
San Diego, Cal.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04		
San Francisco, Cal.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Savannah, Ga.	0.43	0.06	0.03	0.03	0.06	0.02	0.01	T.	T.	0.04	0.14	1.01	0.25	0.07	0.07	0.45	0.20	I. 12	2.01	0.36	0.35	0.29	0.28	7.28	
Seattle, Wash.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	T.	T.	0.00	0.00	0.00	0.00	0.00	0.04
Vicksburg, Miss.	0.00	0.00	0.00	0.26	0.57	0.02	0.01	0.02	0.00	0.00	0.00	0.05	T.	T.	0.45	0.27	0.18	0.17	0.15	0.01	T.	0.06	0.03	0.04	
Washington, D.C.	0.02	0.10	0.18	0.11	0.07	0.03	T.	0.05	0.11	0.03	0.10	0.03	0.12	0.34	0.11	0.04	0.04	0.02	T.	T.	0.02	0.17	0.03	1.88	
Wilmington, N. C.	0.00	0.06	0.02	0.27	0.07	0.37	0.38	0.13	0.23	0.20	0.17	0.08	0.10	0.15	0.02	0.01	0.03	0.36	0.72	0.09	0.05	0.04	0.08	T.	4.23

\*Record incomplete.

TABLE V.—Mean temperature for each hour of seventy-fifth meridian time, August, 1894.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.
Abilene, Tex.	72.3	71.4	70.5	69.9	69.5	68.9	68.3	68.8	71.1	73.9	76.7	78.9	80.9	81.1	82.1	82.2	82.3	82.0	81.2	79.7	77.6	75.6	74.0	73.0	75.1
Albany, N. Y.	61.1	63.1	62.9	62.5	61.1	61.7	62.9	64.8	67.5	70.0	72.3	74.0	75.4	76.0	76.4	76.4	75.8	71.2	71.9	69.2	67.8	66.5	65.4	64.4	68.6
Alpena, Mich.	58.2	57.4	56.7	56.2	55.4	55.1	57.2	59.8	63.3	65.2	66.8	67.8	68.5	68.3	68.3	67.1	65.7	63.9	62.4	61.1	59.8	58.9	56.5	55.4	52.5
Amarillo, Tex.	68.1	67.4	66.4	65.8	64.5	63.9	63.5	63.3	64.4	67.3	70.1	72.5	74.6	75.3	77.2	77.4	77.2	75.5	75.7	73.8	71.6	70.2	68.9	70.6	70.6
Atlanta, Ga.	72.2	71.7	71.3	70.8	70.3	69.9	70.1	71.7	73.7	76.2	79.4	80.2	80.6	81.8	82.5	82.1	81.6	80.1	78.1	76.1	74.9	74.2	73.3	72.8	75.6
Augusta, Ga.	73.7	72.9	72.4	72.0	71.5	71.1	72.3	74.3	77.2	79.7	81.8	83.6	85.1	85.9	86.8	86.5	84.5	82.7	79.7	78.0	76.9	75.9	75.1	74.1	78.1
Baker City, Oreg.	66.2	64.7	63.2	61.4	60.2	58.5	56.8	55.0	55.9	58.7	63.9	65.9	72.3	75.6	78.3	80.3	81.9	82.0	81.2	79.5	77.0	73.4	70.5	67.8	68.9
Baltimore, Md.	69.1	68.5	67.8	67.1	66.7	66.4	67.4	69.9	71.9	74.0	76.1	77.5	78.5	79.2	78.9	77.6	75.5	74.6	73.4	71.9	70.5	69.5	68.3	67.6	73.6
Bismarck, N. Dak.	65.5	64.2	62.8	61.4	60.0	59.3	58.1	59.1	62.9	67.4	72.6	76.7	79.6	81.6	83.4	84.2	83.4	83.2	81.9	80.5	76.5	73.1	70.3	69.7	71.5
Boston, Mass.	64.8	64.2	63.8	63.1	62.6	62.5	63.3	65.6	67.7	69.7	71.2	72.1	72.7	72.5	72.4	73.1	71.5	70.7	69.3	68.2	67.3	66.3	65.5	67.7	67.7
Buffalo, N. Y.	64.4	63.6	62.8	62.2	61.6	61.0	62.9	65.4	67.6	69.1	70.4	71.7	72.6	72.6	72.2	71.4	70.3	69.1	67.6	66.7	66.1	65.4	67.6	67.6	67.6
Charleston, S. C.	70.5	76.5	75.8	75.4	74.7	74.0	75.3	77.3	79.5	81.9	83.9	84.5	85.0	84.1	83.7	83.3	82.7	78.7	78.7	78.2	77.5	77.2	75.5	79.5	79.5
Charlotte, N. C.	70.5	70.1	69.5	69.1	68.5	68.1	68.7	71.2	73.2	75.5	77.7	79.7	80.8	81.5	82.4	81.8	80.1	78.2	75.2	73.9	72.1	71.2	74.5	74.5	74.5
Cheyenne, Wyo.	60.7	59.5	57.7	56.7	55.3	54.9	54.3	54.7	60.6	67.2	71.9	74.4	75.8	77.4	78.4	78.3	76.9	76.9	75.5	73.6	70.0	66.9	62.6	66.9	66.9
Chicago, Ill.	69.4	68.6	68.3	67.6	67.0	66.4	66.5	67.6	69.4	70.8	71.9	72.7	73.3	74.3	74.5	74.5	73.1	72.2	71.6	71.6	70.4	70.0	70.0	70.0	70.0
Cincinnati, Ohio	72.8	71.7	70.9	70.0	69.0	68.3	68.1	69.4	72.5	75.7	78.7	81.1	82.6	84.5	84.8	85.4	84.4	82.3	80.0	78.7	76.8	75.3	73.9	76.7	76.7
Cleveland, Ohio	65.9	65.3	64.5	63.8	63.0	62.4	62.7	65.6	68.3	71.6	72.9	73.6	73.9	73.8	73.7	73.6	73.2	71.9	70.4	69.0	67.4	66.2	69.2	69.2	69.2
Colorado Springs, Colo.	60.3	58.9	57.7	57.1	56.3	54.9	54.7	55.3	59.6	65.5	69.3	71.5	72.7	74.3	74.4	75.3	75.1	72.3	71.0	67.7	64.3	63.0	65.4	65.4	65.4
Columbus, Ohio	67.2	66.1	65.2	64.0	63.2	62.6	63.3	66.2	69.3	72.8	75.5	77.9	80.0	80.7	81.1	81.0	80.3	79.1	77.2	75.1	71.0	69.4	68.1	72.1	72.1
Denver, Colo.	67.1	66.0	64.5	63.5	62.3	61.2	60.4	59.7	61.3	65.8	71.6	75.4	78.6	80.8	81.8	82.7	81.8	80.9	79.9	75.3	75.4	72.4	70.4	68.4	71.3
Des Moines, Iowa	71.3	70.2	68.5	67.4	66.4	65.3	64.7	66.3	69.4	73.4	77.1	80.1	83.4	85.0	86.6	87.5	87.5	86.9	85.4	82.3	79.5	76.9	74.7	72.9	76.2
Detroit, Mich.	55.2	64.5	62.6	62.8	62.2	61.8	62.0	64.4	66.7	69.6	72.4	75.0	76.1	77.2	77.8	77.8	75.8	73.8	71.4	69.8	68.3	67.1	66.0	69.5	69.5
Dodge City, Kans.	70.5	69.6	68.3	67.2	65.7	65.0	64.3	65.7	68.9	73.7	78.0	81.8	83.8	85.4	86.7	87.6	87.6	88.0	85.2	82.7	79.1	76.5	73.8	71.8	76.2
Duluth, Minn.	62.4	61.8	61.0	60.3	59.7	58.9	59.2	60.4	61.5	63.1	64.7	66.2	67.3	68.5	69.6	69.3	65.5	68.7	67.0	65.9	65.1	64.2	63.4	64.3	64.3
Eastport, Me.	53.8	53.5	53.2	53.0	53.0	53.9	55.9	58.4	60.5	61.6	62.5	63.5	63.8	64.2	62.8	62.0	60.6	55.5	55.5	55.0	55.0	55.0	55.0	54.4	58.2
El Paso, Tex.	73.3	72.0	71.1	70.5	69.4	68.6	68.1	69.5	72.8	76.2	79.1	81.6	83.3	84.5	85.5	85.5	86.1	86.2	85.2	83.8	79.9	77.3	75.9	74.5	76.7
Fort Smith, Ark.	75.0	73.9	72.8	71.7	70.0	70.3	70.1	72.9	75.4	78.5	81.5	83.7	85.5	86.6	88.1	88.5	87.7	85.6	83.1	81.2	79.1	75.5	70.0	79.3	79.3
Galveston, Tex.	79.2	79.9	79.1	79.0	78.5	78.8	78.0	79.4	79.1	79.9	80.1	80.9	81.8	81.6	81.2	81.3	81.3	80.4	80.0	79.5	79.4	79.5	79.5	79.5	79.5
Grand Haven, Mich.	63.4	62.3	61.4	60.5	60.0	59.0	59.4	61.6	64.7	67.0	70.2	70.9	71.7	71.8	71.7	71.3	71.3	70.9	71.3	68.9	67.6	67.6	66.3	66.4	64.4
Havre, Mont.	64.6	63.2	61.1	59.1	58.1	57.7	55.2	55.3	58.8	63.7	69.0	74.5	78.6	81.0	82.7	84.4	85.4	85.6	85.0	82.7	78.6	73.3	69.7	67.3	70.6
Helena, Mont.	67.7	66.3	65.0	62.9	61.5	60.2	59.3	58.6	61.1	63.5	66.1	69.2	72.7	75.9	77.9	80.2	80.1	79.5	78.4	76.0	72.8	71.0	69.1	69.7	69.7
Huron, S. Dak.	65.8	64.1	62.6	59.7	58.7	58.1	57.1	61.1	71.6	76.1	79.2	82.7	84.5	85.7	86.7	86.7	83.9	81.1	76.4	73.4	70.3	68.3	67.0	73.0	73.0
Indianapolis, Ind.	69.2	68.7	67.0	65.7	64.3	63.4	63.8	67.2	71.4	75.4	79.0	81.2	83.4	85.0	86.7	86.7	85.5	83.2	81.5	78.6	75.5	74.2	74.8	74.8	74.8
Jacksonville, Fla.	76.3	75.6	75.3	74.7	74.9	74.5	75.1	77.9	80.6	83.3	85.4	87.1	87.7	88.7	89.1	89.1	85.1	85.1	82.1	80.2	78.9	75.5	72.8	70.9	80.1
Kansas City, Mo.	75.0	74.0	72.7	71.7	71.2	70.1	70.5	72.7	75.9	79.5	82.0	83.7	85.1	86.2	87.0	87.4	86.9	86.0	83.3	81.1	79.4	77.7	72.2	78.5	78.5
Key West, Fla.	81.2	81.0	80.7	80.5	80.4	80.4	81.4	83.9	84.4	85.5	86.4	87.2	87.8	88.6	89.3	89.5	89.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
Knoxville, Tenn.	71.5	71.0	70.4	69.7	69.0	68.5	68.6	70.3	72.2	74.8	77.9	80.3	81.2	81.6	82.2	81.6	81.4	81.0	79.2	75.6	72.2	70.2	67.2	75.2	75.2
Lander, Wyo.	63.8	61.5	59.7	57.9	56.3	55.2	52.0	58.1	65.7	71.1	74.5	77.5	79.2	80.5	82.4	84.9	84.9	84.7	83.4	81.8	79.6	75.6	70.6	65.6	68.3
Little Rock, Ark.	73.5	72.8	72.5	71.7	71.2	70.9	70.7	72.1	74.3	77.2	79.8	81.3	82.7	83.6	83.7	84.0	83.7	83.7	82.2	81.9	80.9	77.3	74.3	77.1	77.1
Louisville, Ky.	73.0	71.8	70.9	69.9	68.5	68.5	68.5	70.7	73.8	77.7	80.1	81.0	81.6	81.5	82.5	82.5	82.8	82.8	81.1	81.4	79.2	75.2	74.6	78.6	78.6
Lynchburg, Va.	69.0	68.4	67.6	67.2	66.6	65.9	66.4	66.6	71.1	75.0	77.8	79.2	80.5	81.0	81.3	81.8	80.0	77.5	74.7	74.4	72.7	70.7	67.7	69.7	73.7
Marquette, Mich.	58.2	57.6	57.0	57.2	57.8	59.5	61.2	62.3	63.5	64.5	65.5	66.5	67.5	68.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
Memphis, Tenn.	74.2	73.5	72.5	72.2	71.6	71.1	71.2	73.4	75.3	77.7	79.9	82.0	83.0	84.2	84.9	84.9	84.7	83.4	82.1	80.8	78.3	75.6	72.2	77.8	77.8
Milwaukee, Wis.	65.8	64.4	63.8	63.4	63.1	62.5	63.5	65.2	67.8	70.6	72.1	73.5	75.0	76.3	77.5	78.2	78.2	76							

TABLE VI.—*Mean pressure for each hour of seventy-fifth meridian time, August, 1894.*

Stations.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.
Abilene, Tex.	28.247	.248	.249	.250	.252	.258	.269	.278	.291	.298	.302	.296	.279	.264	.241	.223	.209	.202	.201	.206	.219	.232	.239	.245	.250
Albany, N. Y.	29.927	.926	.924	.925	.944	.951	.954	.951	.947	.938	.927	.912	.897	.888	.883	.880	.882	.895	.907	.916	.921	.925	.927	.930	.920
Alpena, Mich.	29.380	.377	.377	.377	.384	.390	.391	.392	.387	.382	.375	.370	.305	.359	.356	.354	.353	.354	.361	.369	.374	.377	.380	.383	.373
Atlanta, Ga.	28.897	.892	.886	.886	.894	.904	.917	.929	.934	.938	.931	.919	.899	.881	.871	.860	.853	.872	.881	.891	.902	.902	.902	.900	.900
Augusta, Ga.	29.844	.839	.834	.833	.835	.847	.858	.869	.870	.880	.879	.854	.835	.805	.801	.805	.815	.826	.841	.847	.851	.851	.851	.842	.842
Baltimore, Md.	29.826	.823	.824	.826	.832	.842	.850	.854	.858	.860	.855	.845	.833	.818	.807	.802	.800	.809	.819	.827	.830	.832	.831	.831	.829
Bismarck, N. Dak.	28.261	.269	.272	.274	.276	.281	.288	.297	.300	.298	.293	.285	.267	.252	.237	.224	.214	.206	.197	.198	.208	.223	.228	.238	.254
Boston, Mass.	29.872	.869	.870	.873	.881	.888	.892	.893	.891	.881	.881	.872	.863	.857	.851	.848	.847	.851	.860	.868	.876	.877	.876	.876	.872
Buffalo, N. Y.	29.277	.275	.277	.281	.286	.295	.304	.311	.313	.315	.312	.307	.301	.292	.282	.275	.272	.266	.268	.273	.281	.283	.282	.282	.288
Chicago, Ill.	29.103	.162	.162	.164	.168	.177	.188	.192	.190	.198	.199	.190	.188	.180	.169	.158	.152	.147	.147	.153	.162	.167	.168	.172	.172
Cincinnati, Ohio	29.371	.367	.366	.367	.373	.385	.397	.403	.404	.405	.400	.394	.377	.361	.344	.331	.327	.327	.335	.342	.366	.365	.372	.375	.369
Cleveland, Ohio	29.224	.222	.224	.226	.230	.236	.252	.267	.276	.281	.280	.274	.266	.255	.245	.235	.231	.227	.228	.230	.231	.229	.228	.228	.225
Colorado Spgs., Colo.	24.212	.210	.205	.202	.199	.197	.202	.210	.215	.216	.218	.216	.207	.195	.186	.174	.157	.150	.153	.159	.170	.195	.203	.203	.193
Columbus, Ohio	29.137	.132	.131	.133	.141	.151	.163	.168	.172	.168	.160	.147	.132	.119	.109	.105	.101	.108	.117	.128	.134	.141	.138	.138	.138
Denver, Colo.	24.910	.910	.905	.901	.900	.901	.916	.924	.929	.927	.920	.909	.898	.884	.872	.866	.865	.863	.871	.863	.877	.877	.876	.875	.875
Des Moines, Iowa	29.111	.114	.119	.118	.122	.128	.143	.152	.158	.159	.158	.155	.145	.131	.116	.101	.089	.079	.074	.076	.083	.095	.102	.107	.118
Detroit, Mich.	29.256	.253	.249	.250	.253	.259	.270	.275	.279	.279	.275	.271	.262	.252	.241	.236	.231	.230	.234	.242	.254	.259	.265	.255	.255
Dodge City, Kans.	27.477	.474	.469	.470	.471	.473	.482	.493	.499	.504	.505	.501	.489	.477	.466	.449	.433	.422	.418	.423	.433	.451	.466	.475	.467
Duluth, Minn.	29.297	.296	.290	.305	.309	.315	.324	.329	.331	.327	.320	.313	.303	.295	.286	.280	.279	.277	.275	.277	.287	.293	.294	.295	.300
Eastport, Me.	29.874	.873	.874	.879	.885	.892	.893	.892	.888	.877	.868	.862	.857	.853	.853	.855	.855	.855	.857	.873	.875	.877	.876	.875	.875
El Paso, Tex.	25.255	.259	.258	.255	.252	.254	.258	.283	.292	.295	.294	.284	.265	.246	.225	.204	.189	.181	.181	.195	.213	.233	.246	.245	.245
Galveston, Tex.	30.013	.010	.007	.004	.005	.014	.023	.031	.046	.051	.058	.056	.046	.031	.021	.009	.097	.095	.095	.095	.099	.095	.095	.095	.017
Grand Haven, Mich.	29.342	.345	.347	.349	.355	.352	.373	.386	.395	.388	.390	.386	.378	.358	.357	.345	.337	.330	.328	.329	.334	.342	.345	.356	.356
Havre, Mont.	27.405	.407	.411	.411	.410	.412	.419	.426	.435	.435	.434	.421	.407	.394	.383	.369	.358	.354	.347	.352	.361	.375	.382	.398	.398
Helena, Mont.	25.942	.944	.946	.948	.951	.953	.959	.957	.971	.970	.965	.958	.940	.926	.915	.890	.889	.887	.893	.904	.922	.926	.934	.934	.934
Huron, S. Dak.	28.625	.627	.626	.628	.631	.640	.651	.664	.667	.671	.670	.663	.647	.636	.621	.605	.589	.582	.576	.580	.594	.604	.609	.611	.626
Indianapolis, Ind.	29.222	.220	.223	.224	.228	.235	.247	.250	.258	.262	.262	.253	.239	.229	.213	.199	.194	.191	.192	.198	.207	.215	.219	.223	.225
Jacksonville, Fla.	30.006	.002	.005	.003	.007	.013	.018	.025	.028	.028	.025	.025	.019	.013	.009	.003	.003	.007	.005	.009	.011	.011	.008	.006	.006
Kansas City, Mo.	29.045	.045	.044	.045	.048	.054	.064	.073	.080	.086	.091	.089	.075	.060	.044	.027	.014	.006	.005	.005	.015	.030	.038	.041	.047
Key West, Fla.	30.055	.055	.046	.043	.043	.050	.063	.072	.081	.086	.088	.082	.073	.058	.043	.028	.027	.030	.043	.055	.067	.072	.071	.059	.059
Knoxville, Tenn.	29.022	.018	.018	.019	.025	.035	.047	.056	.059	.061	.059	.049	.039	.021	.007	.005	.009	.009	.009	.002	.022	.025	.024	.024	.024
Little Rock, Ark.	29.708	.705	.703	.701	.714	.725	.738	.745	.749	.754	.750	.731	.715	.697	.684	.674	.677	.684	.700	.711	.711	.712	.712	.712	.712
Louisville, Ky.	29.498	.465	.465	.467	.472	.472	.480	.495	.500	.511	.508	.497	.484	.407	.448	.434	.424	.420	.422	.430	.447	.458	.466	.471	.467
Lynchburg, Va.	29.332	.330	.327	.328	.334	.344	.354	.359	.362	.362	.356	.346	.331	.314	.302	.296	.292	.295	.305	.316	.329	.332	.330	.330	.330
Marquette, Mich.	29.227	.226	.226	.228	.229	.236	.245	.248	.249	.255	.258	.257	.249	.244	.235	.232	.227	.227	.233	.244	.250	.250	.250	.250	.250
Memphis, Tenn.	29.690	.688	.686	.686	.688	.696	.708	.719	.729	.735	.737	.734	.718	.703	.684	.671	.663	.659	.661	.668	.680	.695	.696	.695	.695
Milwaukee, Wis.	29.310	.310	.314	.315	.322	.332	.341	.346	.350	.352	.351	.346	.337	.329	.315	.304	.290	.292	.294	.302	.304	.309	.319	.319	.319
Moorhead, Minn.	29.066	.010	.011	.013	.016	.019	.028	.038	.041	.044	.044	.035	.019	.007	.009	.006	.007	.016	.016	.024	.023	.021	.018	.015	.015
Nantucket, Mass.	30.015	.009	.004	.006	.009	.016	.025	.024	.029	.029	.024	.021	.015	.009	.005	.002	.002	.005	.010	.016	.024	.024	.024	.024	.024
Nashville, Tenn.	29.452	.448	.446	.447	.450	.458	.473	.483	.489	.490	.486	.476	.455	.445	.425	.414	.410	.406	.413	.422	.437	.449	.452	.452	.449
New Haven, Conn.	29.896	.892	.890	.894	.904	.912	.917	.914	.914	.911	.904	.894	.884	.875	.866	.863	.865	.871	.878	.887	.895	.896	.900	.900	.893
New Orleans, La.	29.980	.973	.978	.970	.975	.982	.994	.005	.013	.016	.016	.008	.000	.987	.970	.956	.951	.947	.948	.953	.968	.978	.979	.979	.979
New York, N. Y.	29.829	.827	.825	.827	.833	.840	.849	.851	.852	.852	.842	.835	.825	.815	.806	.801	.799	.800	.810	.828	.838	.845	.855	.856	.855
Norfolk, Va.	29.963	.955	.951	.951	.954	.963	.971	.976	.981	.986	.985	.984	.971	.961	.951	.944	.945	.946	.953	.961	.969	.972	.979	.984	.984
Omaha, Neb.	28.897	.897	.899	.870	.875	.882	.893	.900	.905	.905	.904	.898	.883	.870	.854	.854	.854	.860	.871	.881	.891	.894	.894	.893	.893
Parkersburg, W. Va.	29.365	.363	.367	.370	.375	.390	.397	.406	.411	.410	.401	.390	.382	.366	.348	.338	.335	.331	.336	.343	.354	.358	.364	.367	.370
Philadelphia, Pa.	29.905	.903	.899	.907	.907	.912	.919	.926	.928	.932	.931	.920	.908	.896	.886	.876	.879	.876	.877	.883	.889	.895	.909	.911	.905
Pikes Peak, Colo.	18.119	.115	.110	.105	.101	.098	.097	.100	.103	.111	.119	.125	.126	.126	.121	.115	.114	.112	.107	.104	.111	.115	.114	.112	.112
Pittsburgh, Pa.	29.168	.168	.169	.170	.175	.183	.194	.203	.204	.202	.190	.184	.169	.154	.139	.130	.127	.129	.135	.144	.155	.164	.171	.167	.167
Portland, Oreg.	29.548	.543	.562	.564	.566	.571	.571	.574	.575	.578	.573	.573	.572	.572	.571	.570	.570	.571	.572	.573	.574	.575	.575	.575	.575
Rochester, N. Y.	29.471	.470	.472	.474	.480	.489	.500	.506	.509	.503	.506	.502	.492	.483	.470	.463	.458	.455	.458	.458	.466	.471	.472	.472	.480
Roseburg, Oreg.	29.417	.424	.428	.430	.432	.435	.439	.441	.450	.454	.454	.454	.448	.438	.426	.409	.393	.373	.363	.356	.358	.361	.361	.415	.415
St. Louis, Mo.	29.423	.419	.421	.424	.427	.435	.447	.457	.465	.467	.469	.465	.455	.441	.421	.406	.397	.392	.390	.395	.409	.419	.424	.429	.429
St. Paul, Minn.	29.128	.130	.131	.134	.135	.141	.150	.160	.161	.160	.155	.144	.132	.119	.108	.099	.095	.092	.095	.105	.116	.119	.123	.129	.129
Salt Lake City, Utah</td																									

\* For 28 days only.

TABLE VII.—Average wind movement for each hour of seventy-fifth meridian time, August, 1894.

Stations.	Wind Movement												Wind Movement												Mean.	
	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Midnight.			
Abilene, Tex.	4.8	5.0	4.4	4.4	4.1	3.9	4.5	5.5	6.5	7.0	7.6	7.2	7.6	7.6	7.6	7.4	7.4	6.8	5.3	4.8	5.3	5.0	5.8			
Albany, N. Y.	4.2	4.1	4.5	4.4	4.2	4.2	5.2	6.3	7.8	8.8	9.5	9.2	8.8	8.2	7.4	7.4	7.0	7.0	4.6	4.5	4.3	4.1	4.0	6.1		
Alpena, Mich.	5.6	5.4	5.2	5.4	5.2	5.1	5.6	6.3	7.3	8.4	9.1	9.5	10.1	11.3	10.9	10.1	9.4	7.6	5.5	5.5	5.6	5.7	7.4			
Amarillo, Tex.	11.0	11.0	10.1	10.0	10.3	10.1	9.6	9.3	9.8	10.9	12.2	11.9	11.4	10.9	11.5	13.0	12.9	13.2	14.0	13.6	11.1	11.5	11.3	11.3		
Atlanta, Ga.	6.0	6.6	7.0	7.2	6.6	5.6	6.4	7.0	7.6	8.0	8.1	8.3	8.4	8.4	8.4	7.8	7.8	7.0	6.6	6.7	6.7	6.0	7.2			
Atlantic City, N. J.	6.7	7.3	7.0	7.0	7.4	7.5	7.6	9.0	10.0	10.4	10.5	10.0	10.2	10.2	10.1	9.5	8.3	7.2	7.3	7.1	7.1	6.6	8.4			
Augusta, Ga.	1.8	1.4	1.7	1.4	1.4	1.7	2.1	2.7	3.1	3.8	4.5	4.5	5.2	5.5	6.0	6.5	5.9	5.4	4.8	3.0	2.5	3.0	3.5			
Baker City, Oreg.	3.3	3.5	3.9	4.7	5.4	6.0	6.4	7.1	8.8	8.4	9.7	9.2	10.0	11.2	11.7	12.1	11.5	10.7	9.2	9.3	9.2	8.5	9.5			
Baltimore, Md.	3.4	3.6	3.2	4.1	4.0	4.1	4.6	5.2	6.2	6.6	7.7	7.6	7.7	8.0	8.5	7.9	8.3	8.5	8.2	8.6	8.4	8.6	5.1			
Bismarck, N. Dak.	6.7	6.4	6.1	5.8	5.7	6.1	5.9	5.3	5.9	6.8	8.2	9.7	10.6	11.0	11.5	11.1	11.6	11.1	10.0	8.5	8.4	7.5	8.1			
Block Island, R. I.	II.4	II.3	II.5	10.6	10.7	11.5	11.7	12.4	13.3	12.8	12.4	12.6	13.3	13.4	13.5	14.3	13.4	12.2	12.3	11.6	11.6	11.3	12.1			
Boston, Mass.	8.3	8.0	7.5	7.9	7.8	7.6	8.1	8.5	8.7	9.2	10.2	10.5	11.2	11.9	11.7	12.1	11.5	10.7	9.2	9.3	9.3	9.2	8.5			
Buffalo, N. Y.	6.5	6.3	6.1	6.5	6.2	6.6	6.9	7.7	8.2	9.2	10.0	11.4	11.5	11.4	10.9	9.9	9.3	8.2	7.4	7.4	6.6	8.0				
Cairo, Ill.	4.1	4.1	4.1	3.7	3.8	4.1	4.4	4.7	5.4	5.5	6.2	6.8	6.2	6.7	7.5	8.2	7.7	6.6	5.3	4.6	4.5	4.5	5.5			
Cape Henry, Va.	8.6	8.2	7.7	7.9	8.1	8.0	9.0	9.5	9.0	9.7	10.9	11.0	10.7	10.7	10.9	11.0	9.5	9.0	8.9	9.5	8.7	9.2				
Charleston, S. C.	5.3	4.4	4.4	4.4	4.5	4.5	4.9	5.4	5.9	6.4	7.0	8.4	9.5	9.9	10.5	10.0	9.9	9.4	7.9	6.7	7.0	6.7	6.9			
Charlotte, N. C.	3.7	3.6	4.0	3.9	4.0	3.9	4.1	3.9	4.3	4.6	4.7	4.6	4.9	5.2	5.7	6.1	6.3	5.9	4.4	3.5	3.8	3.7	4.4			
Chattanooga, Tenn.	5.0	4.5	4.4	4.4	4.9	4.7	4.2	4.4	4.4	5.4	6.4	6.1	6.3	6.7	7.7	8.9	8.7	8.1	8.6	5.0	4.1	4.3	5.7			
Cheyenne, Wyo.	7.3	6.7	6.2	6.3	6.1	6.0	6.3	6.0	5.9	6.7	7.7	9.4	10.9	11.9	11.5	10.5	10.8	10.5	10.2	9.3	9.9	7.2	8.4			
Chicago, Ill.	13.6	13.8	14.4	14.3	14.3	14.3	14.3	12.5	12.0	12.2	13.4	13.5	14.9	14.9	15.3	15.8	15.4	14.9	14.5	14.6	14.7	14.3	14.2			
Cincinnati, Ohio	3.9	3.5	3.4	3.0	3.3	3.5	3.5	4.2	4.9	5.6	6.1	6.3	7.4	7.5	7.9	7.6	8.2	7.5	6.5	5.7	5.5	4.9	5.4			
Cleveland, Ohio	9.0	9.0	9.4	9.7	9.7	9.3	8.4	8.2	8.6	8.8	9.0	10.1	10.7	11.4	11.8	12.1	11.9	10.9	9.8	8.2	8.2	9.1				
Colorado Sprgs, Colo.	6.5	6.7	6.9	6.7	6.0	5.6	6.3	6.3	5.9	4.3	4.3	5.4	5.0	5.8	6.0	6.1	6.5	6.0	5.5	6.1	6.6	7.0				
Columbia, Mo.	3.4	3.1	3.0	3.0	3.2	2.9	2.5	2.8	3.9	4.2	5.0	5.0	5.0	5.8	6.1	6.7	6.5	6.4	5.9	5.6	5.3	3.6	4.4			
Columbus, Ohio	3.9	4.0	3.6	3.6	3.8	3.6	3.9	4.1	4.4	5.4	5.7	5.0	5.9	7.8	8.5	8.9	8.4	7.0	6.5	5.3	4.5					
Concordia, Kans.	4.8	4.8	4.4	4.0	3.7	3.8	3.4	2.8	3.4	5.1	5.6	6.5	6.9	7.1	7.3	7.0	6.5	6.4	5.4	4.7	4.6	5.0				
Corpus Christi, Tex.	10.1	8.8	8.0	7.2	6.4	5.7	5.5	4.9	5.9	8.0	8.6	9.3	10.7	12.7	14.1	15.3	15.5	16.1	15.8	15.3	14.5	14.3	12.1			
Davenport, Iowa	6.2	6.3	5.8	5.8	5.5	5.3	5.1	5.9	5.6	6.1	7.2	7.3	8.2	8.0	8.6	7.8	7.6	7.6	6.0	5.8	6.4					
Denver, Colo.	6.8	6.4	6.6	5.4	4.8	4.9	4.8	4.6	4.0	3.7	3.6	4.2	4.5	5.5	6.1	6.8	7.5	8.5	9.3	8.7	8.2	6.8				
Des Moines, Iowa	4.7	4.4	4.4	4.2	3.9	3.8	3.4	3.9	4.7	5.0	6.2	6.8	7.1	7.5	7.5	7.7	8.1	7.6	5.4	4.4	4.4	5.7				
Detroit, Mich.	6.5	6.5	6.5	6.4	6.4	6.4	6.5	6.8	6.9	7.6	7.6	7.8	8.9	9.5	10.3	10.2	9.3	8.8	8.3	7.3	7.0	6.8				
Dodge City, Kans.	8.3	8.2	7.5	6.9	6.4	5.8	4.8	5.4	5.6	6.9	7.6	8.2	8.8	12.3	13.3	12.3	11.8	11.9	10.5	9.0	8.3	9.5				
Duluth, Minn.	5.6	5.5	5.6	5.2	4.5	4.7	4.8	4.5	5.4	5.3	6.4	6.4	6.5	6.7	7.2	7.0	6.8	6.2	5.1	5.1	5.7					
Eastport, Me.	5.5	5.6	5.1	5.3	4.9	5.5	5.5	5.1	5.8	6.9	7.6	8.5	8.0	8.0	8.3	7.4	7.6	6.8	6.2	6.4	6.6	6.3				
El Paso, Tex.	8.4	9.5	8.7	8.4	8.6	7.6	7.8	7.4	7.1	6.9	7.2	7.4	7.4	8.1	8.6	9.1	10.1	9.5	10.4	10.3	8.8	8.3				
Erie, Pa.	8.0	8.2	7.9	8.3	8.4	8.5	8.6	7.8	8.1	8.4	9.4	9.5	10.5	10.6	10.3	10.2	9.3	8.8	8.3	7.1	7.4	8.0				
Eureka, Cal.	4.5	4.3	4.1	3.9	4.0	3.3	3.4	3.4	3.5	3.6	3.8	4.2	4.2	4.2	5.4	5.4	5.4	5.5	5.5	5.5	5.5	5.1				
Fort Canby, Wash.	8.3	8.2	8.5	7.9	7.9	7.6	7.0	7.7	8.0	8.0	8.7	9.1	10.1	10.5	11.1	10.3	9.7	10.5	11.3	11.0	9.9	9.0				
Fort Smith, Ark.	3.1	3.3	3.4	3.2	3.4	3.3	2.9	3.4	4.7	4.9	5.0	4.6	5.5	6.7	6.9	6.9	6.9	5.5	5.3	4.7	4.4	3.9				
Fresno, Cal.	10.3	9.9	10.0	9.4	8.4	8.1	7.0	6.3	5.2	4.5	3.8	3.5	4.0	4.4	4.8	5.5	5.7	6.3	7.9	8.8	9.4	6.8				
Galveston, Tex.	7.8	7.7	7.3	6.8	6.3	6.1	6.2	6.3	6.0	6.2	7.2	7.9	8.2	8.7	9.0	9.1	8.6	8.6	8.3	7.9	7.7	7.4				
Grand Haven, Mich.	5.8	5.6	5.6	5.5	6.0	5.5	5.8	6.0	7.2	8.2	8.9	9.0	9.7	10.3	10.9	11.0	10.8	9.0	7.4	7.5	7.5	7.4				
Green Bay, Wis.	6.0	6.4	6.2	6.0	6.0	6.2	6.1	6.4	7.3	7.6	8.1	8.4	9.0	9.8	10.8	11.0	10.8	9.8	8.3	8.3	8.0	7.2				
Hannibal, Mo.	5.6	5.5	5.1	5.3	4.9	4.7	4.2	4.4	4.7	5.5	5.2	5.5	5.0	5.5	5.7	6.1	6.3	6.3	5.9	5.3	5.4	6.1				
Harrisburg, Pa.	4.2	3.6	3.5	3.5	3.6	3.6	3.5	4.0	5.0	5.4	5.6	6.0	6.4	6.3	6.3	5.9	5.7	5.0	3.8	3.7	3.7	4.6				
Hatteras, N. C.	7.1	7.6	7.7	8.5	8.6	8.8	9.2	9.3	8.9	8.6	9.4	10.0	10.1	10.7	10.6	10.5	9.7	8.8	8.7	7.9	7.3	9.0				
Hayre, Mont.	4.6	4.8	4.9	4.0	4.0	4.2	4.4	4.7	5.3	6.0	6.4	6.9	7.6	8.2	8.2	8.5	8.1	8.3	5.9	5.3	4.9	6.2				
Helema, Mont.	6.8	6.6	7.1	6.0	6.8	7.2	7.0	6.6	4.8	3.4	3.9	4.7	5.3	6.0	6.6	7.9	8.5	8.7	8.8	8.0	8.3	6.8				
Huron, S. Dak.	10.4	9.2	9.3	8.9	9.2	9.2	9.0	8.6	10.0	12.0	13.7	14.7	14.8	14.7	15.1	15.0	14.9	14.8	14.8	12.8	11.8	12.0				
Idaho Falls, Idaho	7.1	6.9	7.4	6.3	6.2	5.9	5.7	5.3	5.8	5.0	6.3	7.1	7.7	8.0	9.1	10.1	11.8	12.3	9.3	8.0	7.7					
Indianapolis, Ind.	3.5	2.9	2.9	2.9	3.0	3.3	3.7	4.1	4.6	5.5	5.6	6.3	6.1	6.6	7.0	7.0	6.8	6.1	4.7	4.0	3.3	4.6				
Jacksonville, Fla.	5.7	5.2	5.2	5.2	5.0	5.0	4.7	5.5	5.5	6.0	6.4	6.9	7.2	7.3	7.8	8.2	8.1	7.5	7.5	5.5	5.5	6.5				
Jupiter, Fla.	3.8	3.6	3.5	3.6	3.4	3.4	3.0	3.6	5.0	5.9	7.0	9.0	9.1													

TABLE VII.—*Average wind movement, etc.—Continued.*

Stations.	Average Wind Movement, etc.												Average Wind Movement, etc.												Midnight.	Mean.
	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.				
Palestine, Tex.	3.1	3.2	3.5	3.4	3.1	2.8	3.2	5.1	6.1	5.9	5.4	5.2	5.1	5.4	6.0	5.7	5.9	5.5	4.7	3.8	3.2	3.5	3.6	4.4		
Parkersburg, W. Va.	2.8	2.4	2.3	2.5	2.3	2.4	2.4	3.5	4.0	4.5	4.9	5.5	5.6	5.7	6.2	5.8	4.5	3.3	3.0	3.4	3.3	3.0	3.8	4.4		
Pensacola, Fla.	7.3	7.0	6.7	6.6	6.3	6.0	5.4	7.0	8.0	9.1	9.0	11.5	12.4	12.5	13.4	13.5	12.0	11.0	9.3	7.8	6.9	6.4	7.0	8.7		
Philadelphia, Pa.	7.1	7.0	7.1	6.7	7.4	6.9	6.5	7.5	8.0	8.6	8.5	9.1	9.5	9.8	9.4	8.6	7.7	7.5	7.8	7.2	6.7	6.8	7.9	7.9		
Pikes Peak, Colo.	14.9	15.2	15.0	14.8	14.6	13.8	13.5	13.2	12.0	11.1	10.9	9.7	9.8	9.9	10.4	10.5	10.9	10.2	10.8	10.4	11.5	11.9	12.1	13.1	12.1	
Pittsburg, Pa.	3.2	2.7	2.7	2.6	2.7	2.5	3.0	3.2	3.8	5.0	5.1	5.3	5.7	6.3	6.9	7.1	7.2	6.7	5.2	5.1	4.5	4.2	3.5	4.6	4.6	
Port Angeles, Wash.	4.2	3.9	4.3	4.0	3.6	3.3	3.3	3.0	3.3	2.4	2.7	3.8	4.7	5.4	5.9	6.4	7.2	8.0	8.1	7.9	6.4	4.8	4.2	4.9	4.9	
Port Huron, Mich.	7.4	7.4	7.7	8.0	7.6	7.2	7.4	7.5	8.4	9.1	9.5	10.3	11.5	11.8	12.0	12.2	12.3	11.6	10.4	9.1	8.9	8.8	8.4	8.1	9.3	
Portland, Me.	4.5	4.7	4.2	4.3	4.5	4.0	4.8	5.4	6.2	6.6	6.7	7.6	8.7	8.6	8.5	8.5	8.5	8.5	8.5	8.5	8.0	5.0	5.0	6.0	6.0	
Portland, Ore.	9.2	7.8	6.2	5.0	4.4	4.3	3.7	3.4	3.1	3.7	5.3	6.7	7.6	7.6	7.8	9.1	8.9	9.6	9.9	9.9	9.6	10.0	10.4	7.1	7.1	
Pueblo, Colo.	6.8	6.5	5.8	6.0	4.9	4.2	3.8	3.8	3.4	3.3	4.5	4.4	5.6	7.3	7.7	7.8	8.4	9.2	9.5	8.9	9.1	8.5	7.1	6.2	6.4	
Raleigh, N. C.	3.5	3.5	3.3	3.2	3.3	3.2	3.3	3.8	4.0	4.3	4.9	4.6	5.6	5.2	4.6	4.2	3.4	3.1	3.7	3.3	3.3	3.0	3.9	3.9	3.9	
Rapid City, S. Dak.	7.4	7.0	6.9	7.5	7.6	7.0	7.3	7.1	6.5	6.5	7.1	8.7	9.1	9.9	9.7	10.5	9.5	10.0	9.6	8.5	7.4	7.2	8.1	8.1	8.1	
Red Bluff, Cal.	4.3	4.7	4.4	4.0	4.2	3.5	3.7	3.4	3.3	3.2	3.2	3.4	3.5	4.1	4.4	5.3	6.2	6.7	6.9	7.4	7.0	6.5	5.9	4.6	4.7	
Rochester, N. Y.	5.7	5.9	6.3	5.7	5.8	5.7	5.9	5.5	7.0	7.3	7.7	8.1	8.0	9.1	9.3	9.0	5.9	5.1	4.4	4.6	5.2	5.3	5.5	6.6	6.6	
Roseburg, Oreg.	1.2	1.1	0.9	0.7	0.7	0.7	0.6	0.5	0.6	0.6	0.9	1.7	2.5	3.0	3.5	3.8	4.7	5.9	6.7	7.8	7.6	6.2	4.0	2.5	2.9	
Sacramento, Cal.	9.7	9.8	10.2	10.2	10.0	9.4	9.2	8.3	7.3	6.7	6.5	6.9	7.2	7.5	7.5	8.2	8.5	8.9	9.9	9.7	10.4	11.1	10.0	8.8	8.8	
St. Louis, Mo.	7.9	7.8	7.3	7.2	7.4	7.2	7.2	7.5	7.8	7.5	7.5	7.3	8.5	8.6	8.6	9.1	9.2	9.4	8.3	7.9	7.4	7.4	7.9	8.0	8.0	
St. Paul, Minn.	4.0	3.9	3.3	3.7	3.7	4.0	3.9	4.2	4.3	4.8	5.5	6.3	7.1	7.3	7.7	8.3	8.3	7.5	6.6	5.3	4.6	5.9	5.6	5.6	5.6	
St. Vincent, Minn.	5.6	5.1	4.8	4.6	4.2	4.4	4.7	4.9	6.0	7.1	8.0	8.4	8.3	8.6	8.7	8.8	8.2	7.5	6.6	5.9	5.7	6.0	6.5	6.5	6.5	
Salt Lake City, Utah	5.4	4.8	5.5	5.0	4.9	4.6	4.4	3.9	4.1	3.5	3.6	5.3	6.2	7.3	6.2	8.1	8.0	8.7	7.1	6.6	5.5	5.4	5.7	5.9	5.9	
San Antonio, Tex.	5.5	4.8	3.8	3.4	3.1	3.3	2.6	2.7	3.5	4.6	5.0	5.3	5.8	5.8	6.1	6.3	6.0	6.1	6.2	6.6	6.6	5.6	5.1	5.1	5.1	
San Diego, Cal.	2.6	2.6	2.4	2.3	2.0	2.2	2.2	2.4	2.8	2.5	3.3	4.7	5.3	5.3	5.9	8.8	8.9	8.0	8.1	7.1	6.3	5.0	3.9	4.8	4.8	
Sandusky, Ohio	6.7	6.0	6.5	6.4	6.4	6.0	6.5	6.0	5.9	6.3	6.4	6.3	7.4	6.8	7.0	6.9	6.3	6.1	6.5	6.0	6.6	6.6	6.0	6.4	6.4	
San Francisco, Cal.	12.3	11.5	11.2	10.1	9.5	8.4	8.1	8.3	8.0	8.2	8.7	8.3	9.8	11.3	14.4	17.4	20.7	22.3	22.8	23.0	23.2	20.9	18.8	16.2	13.9	
San Luis Obispo, Cal.	2.5	2.4	2.5	2.2	2.2	2.4	2.7	3.1	3.3	3.6	4.0	4.2	4.6	6.0	7.6	9.2	9.5	9.0	8.9	7.7	5.7	4.5	3.6	5.0	5.0	
Santa Fe, N. Mex.	4.7	4.3	3.5	3.5	3.1	2.8	3.5	3.8	4.0	4.6	5.0	5.3	5.8	5.8	6.1	6.3	6.0	6.1	6.2	6.6	5.6	5.5	5.3	5.4	5.4	
Sault Ste. Marie, Mich.	3.8	3.6	3.6	3.5	3.7	3.8	4.0	3.8	5.1	6.5	6.6	7.3	8.8	9.1	10.0	9.8	9.8	8.8	8.1	6.1	4.9	4.5	4.1	4.2	6.0	
Savannah, Ga.	5.3	4.9	4.5	4.7	4.7	4.6	4.7	5.1	5.1	5.2	5.9	6.4	6.5	7.2	7.7	8.2	8.3	8.0	8.3	7.4	6.5	6.2	6.3	4.7	6.1	
Seattle, Wash.	2.1	1.6	1.8	1.9	1.5	1.6	1.3	1.7	1.6	2.0	2.5	3.5	3.9	4.0	4.8	4.7	4.8	4.9	5.2	4.7	3.8	2.9	3.0	3.0	3.0	
Shreveport, La.	3.2	2.8	2.3	2.4	2.7	2.7	3.2	3.3	3.7	4.5	4.3	4.2	4.9	5.3	5.7	6.2	5.8	5.5	4.1	4.0	4.1	3.6	3.5	4.1	4.1	
Sioux City, Iowa	7.0	7.3	7.2	6.4	6.5	6.4	6.3	7.1	7.3	8.4	9.6	10.4	10.9	11.1	11.5	11.8	11.2	10.9	9.7	8.7	8.4	7.7	7.6	8.7	8.7	
Southport, N. C.	7.8	7.1	6.4	6.0	5.9	6.0	6.4	7.1	7.1	7.5	8.6	8.9	9.7	10.4	10.7	11.0	10.5	10.1	9.3	8.4	8.5	8.0	7.9	8.1	8.2	
Spokane, Wash.	3.3	3.3	3.6	2.8	2.8	2.8	2.4	2.5	2.4	2.6	3.7	4.9	5.0	4.9	5.2	5.1	5.9	5.8	6.1	5.7	4.5	4.3	3.8	4.1	4.1	
Springfield, Ill.	6.3	5.9	6.5	6.3	6.0	6.2	5.7	6.4	6.8	7.2	7.6	7.8	8.1	8.0	8.0	7.7	6.7	5.5	6.0	6.1	6.7	6.7	6.7	6.7	6.7	
Springfield, Mo.	7.1	6.9	6.9	6.5	6.2	5.8	5.5	5.2	5.3	6.7	7.6	7.0	7.6	7.9	8.0	8.5	8.2	8.1	7.2	6.8	6.3	6.6	6.5	7.1	6.9	
Tampa, Fla.	3.3	3.2	3.5	3.2	3.4	3.5	3.6	3.5	4.4	5.2	6.0	6.8	7.1	7.5	7.6	7.9	7.6	7.2	6.4	6.6	3.9	3.1	3.5	5.0	5.0	
Tatoosh Island, Wash.	7.8	9.1	9.7	10.3	10.0	9.5	9.1	9.4	9.8	10.2	10.8	11.4	10.8	10.5	10.4	10.1	9.9	8.7	8.7	9.0	9.0	8.6	8.2	9.6	9.6	
Titusville, Fla.	6.1	6.2	5.8	5.5	5.5	5.9	5.5	5.8	6.7	7.1	7.5	8.3	9.4	11.0	11.5	12.9	13.0	11.7	10.8	10.4	8.7	7.2	6.5	8.2	8.2	
Toledo, Ohio	6.6	6.5	6.6	6.5	6.4	5.7	6.1	6.7	6.8	7.1	7.9	8.6	9.4	9.5	9.7	9.3	8.9	7.8	6.4	6.5	6.8	6.8	6.7	7.5	7.5	
Tucson, Ariz.	4.5	4.7	3.8	3.6	3.3	3.2	3.2	3.2	3.0	3.4	4.1	4.5	5.2	5.4	6.1	7.1	7.7	7.7	6.0	6.7	6.3	4.9	4.4	4.9	4.9	
Valentine, Nebr.	7.9	8.8	9.1	8.0	7.1	7.3	6.6	5.7	6.2	7.6	7.6	8.9	10.3	11.2	11.0	11.4	11.5	12.1	11.3	10.4	8.8	8.8	7.4	9.7	9.7	
Vicksburg, Miss.	3.5	3.9	3.5	3.4	3.5	3.5	3.2	3.2	3.3	4.4	4.5	5.0	5.6	5.9	6.2	6.3	6.5	5.5	4.5	3.8	3.7	3.4	3.3	4.2	4.2	
Vineyard Haven, Mass.	6.4	6.3	6.3	6.0	6.4	6.4	6.1	7.3	8.2	8.5	9.3	9.5	9.7	9.8	9.6	9.1	8.2	7.2	7.0	6.6	6.5	6.3	6.2	7.6	7.6	
Walla Walla, Wash.	4.8	4.5	5.0	5.3	4.8	4.4	4.3	4.1	3.8	3.9	4.3	4.9	4.8	4.9	5.3	4.8	4.7	4.6	5.3	5.2	4.4	4.7	5.0	4.7	4.7	
Washington, D. C.	2.7	2.5	2.7	2.6	2.9	2.8	2.6	3.9	4.5	5.3	6.0	6.4	7.2	7.0	6.8	6.4	6.4	5.7	4.4	3.5	3.2	2.5	4.3	4.3	4.3	
Wichita, Kans.	5.0	5.1	4.5	4.2	3.9	3.9	4.0	4.0	4.5	5.2	6.4	7.1	7.0	6.9	6.9	6.8	6.8	6.4	5.2	4.5	4.8	4.8	5.4	5.4	5.4	
Williston, N. Dak.	7.0	6.5	5.0	4.9	4.5	5																				

TABLE VIII.—*Pervailing and resultant winds from self-registers for August, 1894.*

Number.	Station.	Prevailing wind.		Total movement.		Resultant direction.		Resultant movement.		Azimuth of movement minus direction.	Ratio of resultant movement to total movement.
		Direction from.	Duration.	Monthly.	Hourly average.	Direction from.	Duration.	Average hourly velocity.	Direction from.		
(1)	(2)	(3) Hours.	(4) Miles.	(5) Miles.	(6)	(7) Hours.	(8) Miles.	(9)	(10) Miles.	(11) °	(12)
1	Eastport, Me.	SW.	178	4,681	6.3	S. 57 W.	257	7.0	S. 70 W.	1,791	+ 13 0.383
2	Portland, Me.	*	150	4,430	6.0	S. 52 W.	202	6.8	S. 46 W.	1,382	- 6 0.312
4	Boston, Mass.	SW.	202	7,038	9.5	S. 60 W.	193	10.4	S. 60 W.	2,005	0 0.285
5	Nantucket, Mass.	W.	242	6,434	8.7	S. 68 W.	174	5.2	S. 65 W.	904	- 3 0.139
88	New Haven, Conn.	SW.	155	5,233	7.0	S. 46 W.	124	6.3	S. 30 W.	783	- 16 0.150
10	Albany, N. Y.	S.	236	4,506	6.1	S. 52 W.	94	7.1	S. 52 W.	664	0 0.147
11	New York, N. Y.	S.	211	5,980	8.0	S. 47 W.	179	7.1	S. 48 W.	1,267	+ 1 0.212
13	Philadelphia, Pa.	SW.	169	5,876	7.9	S. 75 W.	125	8.4	S. 84 W.	1,045	+ 21 0.178
15	Baltimore, Md.	SE.	139	3,880	5.2	S. 61 W.	15	10.5	S. 79 E.	189	+ 162 0.049
16	Washington, D. C.	S.	205	3,219	4.3	S. 68 E.	83	3.5	S. 41 E.	287	+ 27 0.089
17	Lynchburg, Va.	NE.	157	2,089	2.8	S. 85 E.	117	3.2	S. 73 E.	376	- 22 0.180
18	Norfolk, Va.	NE.	204	4,302	5.8	S. 74 E.	206	4.6	S. 85 E.	958	+ 11 0.223
24	Wilmington, N. C.	SW.	203	4,595	6.1	S. 47 W.	106	5.9	S. 42 W.	630	- 5 0.138
26	Augusta, Ga.	NE.	113	2,592	3.5	S. 73 E.	41	4.1	S. 73 E.	170	0 0.066
27	Savannah, Ga.	SW.	193	4,534	6.1	S. 32 W.	303	6.0	S. 21 W.	1,814	- 11 0.400
28	Jacksonville, Fla.	SW.	251	4,840	6.5	S. 26 W.	322	7.6	S. 15 W.	2,431	- 11 0.502
30	Key West, Fla.	SE.	259	4,102	5.5	S. 66 E.	461	5.9	S. 67 E.	2,710	- 1 0.061
33	Atlanta, Ga.	W.	153	5,354	7.2	S. 39 W.	64	7.8	S. 10 W.	498	+ 29 0.093
35	Vicksburg, Miss.	SW.	167	3,142	4.2	S. 44 W.	85	4.5	S. 52 W.	379	0 0.121
39	New Orleans, La.	SW.	203	4,084	5.5	S. 64 W.	275	5.8	S. 51 W.	1,581	+ 17 0.387
42	Little Rock, Ark.	NE.	143	3,882	5.2	S. 32 E.	141	8.0	N. 43 E.	1,126	+ 11 0.290
44	Galveston, Tex.	SW.	234	5,502	7.4	S. 18 W.	453	7.3	S. 18 W.	3,289	0 0.508
46	Knoxville, Tenn.	NE.	197	3,013	4.0	N. 53 E.	205	3.4	N. 52 E.	687	- 1 0.228
49	Memphis, Tenn.	NE.	142	3,837	5.2	N. 15 E.	75	6.1	N. 44 E.	460	+ 29 0.120
50	Nashville, Tenn.	W.	116	2,612	3.6	S. 72 W.	68	4.3	N. 68 W.	290	+ 40 0.111
52	Louisville, Ky.	N.	173	4,658	6.3	N. 63 W.	44	18.5	N. 39 W.	813	+ 24 0.175
53	Indianapolis, Ind.	N.	158	3,395	4.6	N. 22 W.	141	6.1	N. 21 W.	866	+ 1 0.255
54	Cincinnati, Ohio.	NE.	135	4,052	5.4	N. 73 E.	151	4.7	N. 18 E.	711	- 55 0.175
55	Columbus, Ohio.	NE.	124	4,427	6.0	N. 24 E.	88	6.0	N. 21 W.	527	- 45 0.119
56	Pittsburg, Pa.	N.	155	3,445	4.6	N. 40 W.	150	4.7	N. 58 W.	701	- 18 0.204
58	Buffalo, N. Y.	SW.	160	5,973	8.0	W.	166	13.0	W.	2,154	0 0.361
60	Rochester, N. Y.	SW.	275	4,885	6.6	S. 58 W.	217	7.9	S. 69 W.	1,714	+ 11 0.351
62	Cleveland, Ohio.	SE.	152	6,804	9.1	S. 39 W.	64	16.5	S. 50 W.	1,057	- 11 0.155
64	Toledo, Ohio.	E.	144	5,548	7.5	S. 11 W.	79	9.8	S. 16 W.	775	- 5 0.140
65	Detroit, Mich.	SW.	229	5,644	7.0	S. 51 W.	63	16.7	N. 79 W.	1,052	- 28 0.186
66	Alpena, Mich.	SE.	154	5,485	7.4	N. 17 W.	34	8.7	N. 1 W.	295	+ 16 0.054
67	Grand Haven, Mich.	NW.	108	5,557	7.5	N. 42 W.	65	17.1	N. 87 W.	1,110	- 45 0.200
68	Marquette, Mich.	N.	227	6,722	9.0	N. 36 W.	293	9.8	N. 67 W.	2,887	- 31 0.429
70	Sault Ste. Marie, Mich.	NW.	209	4,457	6.0	N. 43 W.	57	14.4	N. 50 W.	824	- 7 0.185
71	Chicago, Ill.	NE.	193	10,588	14.2	S. 67 E.	93	9.8	N. 89 E.	916	- 30 0.080
72	Milwaukee, Wis.	NE.	152	6,423	8.6	S. 64 E.	83	2.2	N. 78 E.	602	- 38 0.094
74	Duluth, Minn.	E.	187	4,251	5.7	N. 45 E.	262	2.8	N. 58 E.	739	+ 13 0.174
75	Moorhead, Minn.	N.	289	6,020	8.1	N. 27 E.	159	3.8	N. 78 E.	604	+ 51 0.100
77	Bismarck, N. Dak.	E.	178	6,059	8.1	N. 86 E.	168	7.2	S. 84 E.	1,218	+ 10 0.201
79	Saint Paul, Minn.	NW.	185	4,151	5.6	N. 89 W.	58	13.1	N. 83 W.	761	+ 6 0.183
81	Davenport, Iowa.	SW.	189	4,752	6.4	S. 14 W.	53	2.0	S. 75 W.	105	+ 61 0.022
82	Des Moines, Iowa.	SW.	152	4,204	5.7	N. 69 E.	50	0.0	N.	1	- 69 0.000
88	Saint Louis, Mo.	N.	159	5,940	8.0	N. 10 W.	45	11.3	N. 55 W.	510	- 45 0.086
90	Kansas City, Mo.	S.	157	4,509	6.1	S. 69 E.	166	6.8	S. 55 E.	1,133	+ 14 0.251
92	Omaha, Nebr.	S.	167	4,789	6.4	S. 54 E.	131	9.1	S. 51 E.	1,195	+ 3 0.249
96	Huron, S. Dak.	SE.	202	8,891	12.0	S. 82 E.	214	13.7	S. 68 E.	2,935	+ 14 0.330
98	Havre, Mont.	SW.	152	4,645	6.2	N. 61 W.	150	7.9	N. 75 W.	1,182	- 14 0.254
100	Helena, Mont.	SW.	267	5,075	6.8	S. 80 W.	297	7.3	S. 76 W.	2,175	- 4 0.428
105	Colorado Springs, Colo.	N.	359	5,218	7.0	N. 7 C.	211	6.2	N.	1,299	- 7 0.249
107	Denver, Colo.	S.	213	4,681	6.3	S. 23 W.	194	5.4	S. 12 W.	1,051	- 11 0.224
108	Pikes Peak, Colo.	NE.	241	8,998	12.1	N. 71 E.	226	10.1	N. 80 E.	2,276	+ 9 0.253
111	Dodge City, Kans.	S.	217	7,051	9.5	S. 47 E.	355	11.0	S. 35 E.	3,905	+ 12 0.554
114	Abilene, Tex.	SE.	192	4,311	5.8	S. 35 E.	242	4.8	S. 47 E.	1,160	- 12 0.269
116	El Paso, Tex.	NE.	236	6,261	8.4	N. 71 E.	382	8.3	N. 59 E.	3,184	- 12 0.508
117	Santa Fe, N. Mex.	NE.	171	4,021	5.4	S. 81 E.	188	6.1	S. 75 E.	1,150	+ 6 0.266
119	Yuma, Ariz.	SW.	164	4,994	6.7	S. 9 W.	271	9.3	S. 6 W.	2,533	- 3 0.507
122	Salt Lake City, Utah.	SE.	200	4,358	5.9	S. 35 E.	232	4.6	S. 22 E.	1,062	+ 13 0.244
125	Spokane, Wash.	S.	132	3,081	4.1	S. 33 W.	95	8.8	S. 21 W.	839	- 12 0.272
130	Seattle, Wash.	W.	147	2,249	3.0	S. 84 W.	114	4.4	S. 88 W.	508	+ 4 0.226
132	Portland, Oregon.	NW.	481	5,295	7.1	N. 39 W.	505	7.6	N. 36 W.	3,849	+ 3 0.727
133	Roseburg, Oregon.	NW.	199	2,122	2.9	N. 38 W.	294	5.0	N. 33 W.	1,480	+ 5 0.698
137	San Francisco, Cal.	SW.	594	10,335	13.9	S. 38 W.	673	14.7	S. 41 W.	9,885	+ 3 0.956
140	San Diego, Cal.	W.	280	3,577	4.8	S. 82 W.	510	5.4	S. 79 W.	2,779	- 3 0.577

\*S. and W.

† Data for 29½ days.

TABLE IX.—Resultant winds from observations at 8 a. m. and 8 p. m., daily, during August, 1894.

Number.	Station.	Component direction from—				Resultant.		Number.	Station.	Component direction from—				Resultant.	
		N.	S.	E.	W.	Direction from—	Duration.			N.	S.	E.	W.	Direction from—	Duration.
<i>New England.</i>															
1	Eastport, Me.	Hours.	Hours.	Hours.	Hours.	o	Hours.	71	Upper Lake Region—Cont'd.	Hours.	Hours.	Hours.	Hours.	o	Hours.
2	Portland, Me.	14	27	9	26	s. 52 w.	22	72	Chicago, Ill.	15	24	23	16	s. 38 e.	11
3	Northfield, Vt.	13	23	9	27	s. 51 w.	21	73	Milwaukee, Wis.	20	21	19	19	s. ..	1
4	Boston, Mass.	20	28	9	18	s. 48 w.	12	73	Green Bay, Wis.	21	25	18	10	s. 63 e.	9
5	Nantucket, Mass.	11	19	16	31	s. 62 w.	17	74	Duluth, Minn.	24	9	22	16	n. 22 e.	16
6	Woods Hole, Mass.	14	18	16	27	s. 70 w.	12		North Dakota.						
7	Block Island, R. I.	3	17	9	13	s. 10 w.	15	75	Moorehead, Minn.	31	21	14	7	n. 35 e.	12
8	New Haven, Conn.	13	23	19	25	s. 31 w.	12	76	Saint Vincent, Minn.	29	19	14	15	n. 6 w.	10
9	New London, Conn.	24	23	13	17	n. 76 w.	4	77	Bismarck, N. Dak.	20	13	28	13	n. 65 e.	17
		21	22	11	21	s. 84 w.	10	78	Williston, N. Dak.	19	26	23	10	s. 62 e.	15
<i>Middle Atlantic States.</i>															
10	Albany, N. Y.	25	23	8	15	n. 74 w.	7	79	Upper Mississippi Valley.						
11	New York, N. Y.	21	28	7	17	s. 55 w.	12	80	Saint Paul, Minn.	27	18	15	21	n. 24 w.	11
12	Harrisburg, Pa.	22	18	19	11	n. 03 e.	9	81	La Crosse, Wis.	22	32	6	7	s. 6 w.	10
13	Philadelphia, Pa.	20	25	14	21	s. 51 w.	9	82	Waukegan, Iowa.	21	17	22	17	n. 51 e.	6
14	Atlantic City, N. J.	16	26	15	19	s. 22 w.	11	84	Des Moines, Iowa.	19	18	22	18	n. 76 e.	4
15	Baltimore, Md.	21	22	16	15	s. 45 e.	1	85	Keokuk, Iowa.	22	18	17	16	n. 14 e.	4
16	Washington, D. C.	21	26	20	8	s. 67 e.	13	86	Cairo, Ill.	24	22	14	15	n. 27 w.	2
17	Lynchburg, Va.	15	22	27	12	s. 65 e.	17	87	Springfield, Ill.	21	20	14	19	n. 79 w.	5
18	Norfolk, Va.	21	15	30	9	n. 74 e.	22	88	Hannibal, Mo.	20	17	17	17	n. ..	3
									Saint Louis, Mo.	22	20	15	19	n. 63 w.	4
<i>South Atlantic States.</i>															
19	Charlotte, N. C.	7	31	21	18	s. 7 e.	24	89	Missouri Valley.						
20	Hatteras, N. C.	25	17	20	14	s. 37 e.	10	90	Columbia, Mo.	6	12	13	8	s. 40 e.	8
21	Kittyhawk, N. C.	21	12	33	9	n. 73 e.	30	91	Kansas City, Mo.	16	27	24	10	s. 65 e.	26
22	Raleigh, N. C.	19	22	19	18	s. 18 e.	3	92	Springfield, Mo.	14	29	25	8	s. 48 e.	23
23	Southport, N. C.	16	11	18	29	s. 66 w.	12	93	Omaha, Nebr.	22	25	18	8	s. 73 e.	10
24	Wilmington, N. C.	19	24	12	22	s. 63 w.	11	94	Valentine, Nebr.	18	21	17	15	s. 34 e.	4
25	Charleston, S. C.	12	22	18	23	s. 27 w.	11	95	Sioux City, Iowa.	24	27	21	2	s. 51 e.	19
26	Augusta, Ga.	16	24	17	17	n. 67 e.	8	96	Pierre, S. Dak.						
27	Savannah, Ga.	8	33	14	23	s. 20 w.	27		Huron, S. Dak.	25	21	23	6	n. 77 e.	18
		7	29	15	26	s. 26 w.	25	98	Northern Slope.						
29	Jupiter, Fla.	4	34	11	25	s. 25 w.	33	100	Havre, Mont.	23	16	25	5	n. 52 w.	11
30	Key West, Fla.	7	22	46	2	s. 71 e.	40	101	Miles City, Mont.	20	15	25	6	n. 61 e.	10
31	Tampa, Fla.	14	17	22	24	s. 34 w.	4	102	Helena, Mont.	12	25	6	37	s. 67 w.	34
32	Titusville, Fla.	4	34	9	30	s. 35 w.	37	103	Rapid City, S. Dak.	11	20	17	23	s. 34 w.	11
									Cheyenne, Wyo.	27	17	11	26	n. 50 w.	18
									Lander, Wyo.	18	27	7	26	s. 05 w.	21
<i>Eastern Gulf States.</i>															
33	Atlanta, Ga.	17	11	25	22	n. 27 e.	7	105	North Platte, Nebr.	12	31	21	11	s. 28 e.	22
34	Pensacola, Fla.	20	20	9	35	w. ..	26	106	Middle Slope.						
35	Mobile, Ala.	22	17	2	32	n. 81 w.	30	107	Colorado Springs, Colo.	39	17	5	7	n. 5 w.	22
36	Montgomery, Ala.	19	14	16	25	n. 61 w.	10	108	Denver, Colo.	13	32	9	23	s. 36 w.	24
37	Meridian, Miss.	14	23	18	23	s. 29 w.	10	109	Pikes Peak, Colo.	20	16	27	15	n. 72 e.	13
38	Vicksburg, Miss.	13	21	19	21	s. 14 w.	8	110	Pueblo, Colo.	26	14	21	22	n. 5 w.	12
39	New Orleans, La.	10	28	7	30	s. 52 w.	29	111	Concordia, Kans.	7	29	20	12	s. 20 e.	23
									Dodge City, Kans.	13	34	22	6	s. 37 e.	26
<i>Western Gulf States.</i>															
40	Shreveport, La.	19	21	22	16	s. 73 e.	6	113	Wichita, Kans.	13	31	24	10	s. 42 e.	24
41	Fort Smith, Ark.	13	16	37	5	s. 85 e.	32		Oklahoma, Okla.	12	34	10	18	s. 5 w.	22
42	Little Rock, Ark.	22	17	22	19	n. 31 e.	6	114	Southern Slope.						
43	Corpus Christi, Tex.	2	42	33	2	s. 42 e.	54	115	Abilene, Tex.	13	31	19	12	s. 21 e.	19
44	Galveston, Tex.	1	41	9	23	s. 19 w.	42		Amarillo, Tex.	8	42	11	6	s. 5 e.	34
45	Palestine, Tex.	12	26	15	38	s. 38 e.	18	116	El Paso, Tex.	17	9	42	7	n. 77 e.	26
46	San Antonio, Tex.	10	28	32	7	s. 54 e.	31	117	Santa Fe, N. Mex.	16	22	33	7	s. 77 e.	27
									Tucson, Ariz.	9	32	28	15	s. 29 w.	26
									Yuma, Ariz.	7	29	16	24	s. 20 w.	23
<i>Ohio Valley and Tennessee.</i>															
47	Chattanooga, Tenn.	5	21	19	12	s. 24 e.	18	119	Middle Plateau.						
48	Knoxville, Tenn.	16	10	27	22	n. 40 e.	8		Winnemucca, Nev.	12	21	13	31	s. 63 w.	20
49	Memphis, Tenn.	18	15	27	17	s. 73 e.	10	121	Salt Lake City, Utah.	12	26	25	14	s. 38 e.	18
50	Nashville, Tenn.	14	18	20	22	s. 27 w.	4	122	Northern Plateau.						
51	Lexington, Ky.	15	26	20	19	s. 5 e.	11		Baker City, Oreg.	19	29	15	20	s. 27 w.	11
52	Louisville, Ky.	28	23	12	11	n. 11 e.	5	123	Idaho Falls, Idaho.	21	20	12	31	s. 87 w.	19
53	Indianapolis, Ind.	30	17	14	17	s. 13 w.	13	124	Spokane, Wash.	17	25	13	21	s. 63 w.	9
54	Cincinnati, Ohio.	19	14	29	13	n. 73 e.	17	125	Walla Walla, Wash.	21	25	7	17	s. 68 w.	11
55	Columbus, Ohio.	24	17	22	13	n. 52 e.	11	126	North Pacific Coast Region.						
56	Pittsburg, Pa.	22	18	15	21	n. 56 w.	7		Fort Canby, Wash.	27	13	14	23	s. 33 w.	17
57	Parkersburg, W. Va.	16	20	25	12	s. 73 e.	14	127	Port Angeles, Wash.	4	21	9	33	s. 50 w.	31
									Seattle, Wash.	18	16	9	24	s. 76 w.	8
									Tatooch Island, Wash.	14	31	13	11	s. 6 w.	31
									Portland, Oreg.	3	34	18	21	s. 44 w.	43
									Roseburg, Oreg.	34	7	11	20	n. 18 w.	28
<i>Lower Lake Region.</i>															
58	Buffalo, N. Y.	16	19	14	26	s. 26 w.	12	130	Middle Pacific Coast Region.	27	4	4	27	n. 73 w.	24
59	Oswego, N. Y.	17	25	8	19	s. 54 w.	14	131	Eureka, Cal.	24	17	4	30	n. 48 w.	50
60	Rochester, N. Y.	14	26	13	30	s. 55 w.	21	132	Red Bluff, Cal.	18	31	13	11	s. 9 e.	13
61	Erie, Pa.	18	21	16	21	s. 59 w.	6	133	Sacramento, Cal.	3	34	18	18	s. 15 w.	49
62	Cleveland, Ohio.	22	19	23	16	n. 67 e.	8		San Francisco, Cal.	3	50	5	34	s. 36 w.	57
63	Sandusky, Ohio.	10	22	26	17	s. 37 e.	15	134	South Pacific Coast Region.	24	17	4	27	n. 73 w.	24
64	Toledo, Ohio.	20	15	21	21	n. ..	2	135	Fresno, Cal.	18	31	13	11	s. 9 e.	13
65	Detroit, Mich.	20	19	22	20	n. 63 e.	4	136	Los Angeles, Cal.	3	50	5	18	s. 15 w.	49
									San Diego, Cal.	10	11	13	40	s. 87 w.	37
									San Luis Obispo, Cal.	13	15	3	36	s. 67 w.	36
<i>Upper Lake Region.</i>															
66	Alpena, Mich.	20	23	17	18	s. 18 w.	3			37	3	3			

TABLE Xa.—Temperature data for selected voluntary stations, August, 1894.

State and station.	Normal for month.	Length of record.	Mean, Aug., 1894.	Departure from the normal.	Extreme monthly means.				
					Highest.	Year.	Lowest.	Year.	
Arizona.	0	Years	0	0	77.1	1877	67.9	1884	
Fort Apache	72.3	21	70.6	- 1.7	78.9	1879	67.6	1891	
Whipple Barracks	72.3	23	71.2	- 1.1					
Arkansas.									
Keesee Ferry	77.6	12	76.0	- 1.6	81.0	1886	74.4	1893	
California.									
Riverside	77.3	12	74.4	- 2.9	81.5	1885	73.6	1887	
Colorado.									
Las Animas	73.4	11	72.0	- 1.4	77.1	1889	70.4	1884	
Florida.									
Merritts Island	81.2	12	82.3	+ 1.1	83.8	1883	77.9	1892	
Georgia.									
Forsyth	78.8	20	79.4	+ 0.6	82.4	1878	73.2	1885	
Idaho.									
Boise Barracks	72.2	20	73.8	+ 1.6	75.1	1878	67.3	1881	
Fort Sherman	66.3	10	69.6	+ 3.3	69.6	1894	63.7	1889	
Indiana.									
Lafayette	70.6	12	73.1	+ 2.5	74.0	1886	68.2	1885	
Iowa.									
Cresco	68.6	21	72.0	+ 3.4	72.6	1881	63.1	1885	
Kansas.									
Eureka Ranch	76.8	11	78.6	+ 1.8	80.8	1889	73.2	1893	
Independence	77.7	22	81.8	+ 4.1	85.8	1874	72.6	1884	
Salina	77.5	11	80.5	+ 3.0	81.7	1888	74.2	1893	
Louisiana.									
Grand Coteau	80.9	10	78.0	- 2.9	83.6	1883	78.0	1894	
Maine.									
Orono	65.3	24			67.5	1881	63.1	1874	
Maryland.									
Cumberland	71.5	23	70.8	- 0.7	75.7	1871, 1872	68.5	1883	
Michigan.									
Kalamazoo	69.5	17	70.0	+ 0.5	73.0	1881	63.8	1885	
Missouri.									
Sedalia	76.8	13	79.1	+ 2.3	85.4	1881	72.6	1891	
Montana.									
Fort Custer	70.0	13	72.2	+ 2.2	73.8	1891	66.2	1885	
Nebraska.									
Fort Robinson	69.9	11	72.0	+ 2.1	74.3	1886	64.7	1888	
Genoa (near)	72.4	18	77.8	+ 5.4	77.8	1894	68.5	1885	
Nevada.									
Carson City	69.1	18	66.1	- 3.0	72.4	1878	63.8	1876	
New Hampshire.									
Hanover	66.1	21	62.6	- 3.5	70.4	1881	59.2	1885	
New Mexico.									
Fort Wingate	70.2	22	70.0	- 0.2	76.7	1877	65.8	1887	
New York.									
Cooperstown	66.3	23	63.2	- 3.1	71.5	1877	62.4	1889	
Plattburg Barracks	67.7	23	64.2	- 3.5	71.3	1872	64.2	1894	
North Carolina.									
Lenoir	73.1	21	72.9	- 0.2	77.0	1877	70.0	1890	
Oklahoma.									
Fort Reno	78.3	10	78.6	+ 0.3	83.2	1886	75.2	1893	
Fort Sill	80.5	23	78.1	- 2.4	91.0	1874	75.0	1892	
Fort Supply	78.9	15	77.1	- 1.8	90.8	1874	75.0	1882, 1893	
Oregon.									
Bandon	57.3	10	59.0	+ 1.7	61.1	1891	54.4	1886	
Pennsylvania.									
Dyberry	65.0	23	64.6	- 0.4	68.3	1872	61.2	1889	
Grampian	67.9	23	69.0	+ 1.1	73.1	1881	64.4	1873	
Wellsboro	65.2	15	62.6	- 2.6	71.3	1881	62.0	1891	
South Carolina.									
Statesburg	76.6	13	76.5	- 0.1	79.7	1881	73.5	1889	
South Dakota.									
Fort Sully	73.1	23	77.5	+ 4.4	77.5	1894	67.6	1885	
Texas.									
Austin	83.8	21	82.4	- 1.4	86.5	1874, 1886	80.0	1880	
Silver Falls	78.4	8	74.0	- 4.4	81.4	1887	74.0	1894	
Utah.									
Terrace	77.4	20	82.1	+ 4.7	83.8	1888	65.6	1872	
Vermont.									
Strafford	67.3	21	62.0	- 5.3	72.6	1884	62.0	1894	
Virginia.									
Dale Enterprise	74.2	14	71.2	- 3.0	77.5	1888	67.0	1890	
Washington.									
Fort Townsend	61.3	21	62.8	+ 1.5	64.3	1874	58.9	1876	
West Virginia.									
Parkersburg									
Wisconsin.									
Madison	69.5	23	71.6	+ 2.1	73.2	1881	64.2	1885	
Wyoming.									
Fort Washakie	64.5	12	67.6	+ 3.1	72.2	1881	64.1	1888	

TABLE Xb.—Precipitation data for selected voluntary stations, Aug., 1894.

State and station.	Normal for month.	Length of record.	Total, Aug., 1894.	Departure from the normal.	Extremes.			
					Greatest.		Least.	
					Amt.	Year.	Amt.	Year.
Arizona.	Inches.	Years	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Fort Apache	3.82	18	5.01	+ 1.19	9.33	1878	1.00	1888
Whipple Barracks	2.97	23	3.88	+ 0.91	6.34	1878	0.24	1873
Arkansas.								
Keesee Ferry	5.21	12	3.32	- 1.89	11.53	1888	2.37	1891
California.								
Riverside	0.28	13	0.21	- 0.07	3.00	1884	0.00	*
Colorado.								
Las Animas	1.54	11	0.02	- 1.52	3.75	1885	0.02	1894
Florida.								
Merritts Island	5.77	16	5.79	+ 0.02	15.77	1880	1.15	1883
Georgia.								
Forsyth	5.53	20	9.54	+ 4.01	13.45	1893	2.50	1888
Idaho.								
Boise Barracks	0.21	20	0.06	- 0.15	1.65	1873	0.00	*
Fort Sherman	0.39	10	0.02	- 0.37	1.51	1892	0.00	*
Indiana.								
Lafayette	3.74	12	2.51	- 1.03	7.17	1890	0.77	1893
Iowa.								
Cresco	3.02	21	1.03	- 1.99	8.34	1884	0.92	1889
Kansas.								
Independence	3.09	22	0.66	- 2.43	7.46	1885	0.66	1894
Salina	2.86	11	0.50	- 2.36	6.60	1887	0.30	1882
Louisiana.								
Grand Coteau	3.93	10	3.48	- 0.45	8.07	1888	0.42	1883
Maine.								
Orono	3.79	23	.....	.....	7.36	1885	0.53	1883
Maryland.								
Cumberland	3.14	23	1.15	- 1.99	8.09	1882	0.31	1881
Michigan.								
Kalamazoo	2.60	18	0.91	- 1.69	8.94	1885	0.31	1889
Missouri.								
Sedalia	2.06	16	0.68	- 1.38	5.83	1888	0.29	1892
Montana.								
Fort Custer	1.02	13	0.00	- 1.02	2.55	1880	0.00	1893, 1894
Nebraska.								
Fort Robinson	1.90	11	0.24	- 1.66	3.32	1887	0.24	1894
Genoa (near)	2.57	16	1.04	- 1.53	5.81	1892	0.45	1881
Nevada.								
Carson City	0.13	18	0.05	- 0.08	1.13	1890	0.00	*
New Hampshire.								
Hanover	3.56	23	2.18	- 1.38	7.77	1885, 1890	0.42	1876
New Mexico.								
Fort Wingate	2.00	23	3.33	+ 1.33	5.90	1878	0.24	1888
New York.								
Cooperstown	3.79	23	1.88	- 1.91	9.08	1885	0.63	1876
Plattsburg Barracks	3.35	23	0.89	- 2.46	7.18	1892	0.37	1876
North Carolina.								
Lenoir	5.81	22	4.50	- 1.31	10.20	1886	2.10	1877
Oklahoma.								
Fort Reno	3.65	11	1.61	- 2.04	10.25	1893	0.34	1886
Fort Sill	3.24	22	2.47	- 0.77	9.73	1888	T.	1874
Fort Supply	2.18	15	0.26	- 1.92	5.32	1883	0.26	1894
Oregon.								
Bandon	0.53	15	0.00	- 0.53	2.16	1879	0.00	1888, 1894
Pennsylvania.								
Dyberry	4.33	22	1.27	- 3.06	8.77	1885	0.95	1883
Grampian	4.37	17	1.15	- 3.22	8.19	1888	1.15	1894
Wellshoro	5.08	15	2.05	- 3.03	15.25	1885	0.83	1889
South Carolina.								
Statesburg	5.21	13	1.85	+ 6.64	14.29	1893	1.38	1892
South Dakota.								
Fort Sully	1.86	23	0.65	- 1.21	5.26	1880	0.20	1882
Texas.								
Austin	2.13	22	5.30	+ 3.17	6.45	1892	T.	1877
Silver Falls	2.29	8	4.21	+ 1.92	4.29	1		

TABLE XI.—*Thunderstorms and auroras, August, 1894.*

States.	No. of stations.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	Total.				
Alabama .....	52	T.	3	4	3	1	1	1	1	1	1	3	3	2	3	2	1	4	3	1	2	1	2	1	3	1	2	1	2	48	T.						
A. ....	A.	2	3	3	2	4	1	1	1	1	1	2	3	2	3	1	3	3	5	4	4	1	3	1	4	2	3	2	64	A.							
Arizona .....	48	T.	2	3	3	2	4	1	1	1	1	2	3	2	3	1	3	3	5	4	4	1	3	1	4	2	3	2	64	T.							
A. ....	A.	6	7	.....	.....	.....	.....	.....	.....	1	1	4	5	1	2	4	3	7	1	3	5	1	1	6	1	4	1	70	T.								
Arkansas .....	50	T.	6	7	.....	.....	.....	.....	.....	1	1	4	5	1	2	4	3	7	1	3	5	1	1	6	1	4	1	70	A.								
California .....	316	T.	1	4	.....	.....	.....	.....	2	1	1	1	4	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	40	T.						
A. ....	A.	1	4	.....	.....	.....	.....	.....	2	1	1	1	4	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	12	T.					
Colorado .....	81	T.	11	10	1	8	2	8	14	10	5	6	1	4	11	4	6	2	5	4	6	6	9	6	1	2	3	1	3	148	T.						
Connecticut .....	25	T.	2	1	8	.....	.....	.....	11	.....	.....	.....	.....	8	.....	.....	.....	9	.....	.....	9	.....	.....	.....	.....	.....	4	1	39	T.							
A. ....	A.	1	8	.....	.....	.....	.....	11	.....	.....	.....	.....	8	.....	.....	.....	9	.....	.....	9	.....	.....	.....	.....	.....	4	1	39	A.								
Delaware .....	7	T.	.....	.....	1	.....	.....	.....	.....	1	.....	2	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	5	1	5	T.							
District of Columbia .....	4	T.	.....	.....	.....	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	7	1	7	A.						
Florida .....	34	T.	12	14	11	10	8	8	9	9	6	4	11	15	8	7	5	4	6	8	10	9	16	14	14	12	15	11	13	14	14	11	319	T.			
A. ....	A.	12	14	11	10	8	8	9	9	6	4	11	15	8	7	5	4	6	8	10	9	16	14	14	12	15	11	13	14	14	11	319	A.				
Georgia .....	64	T.	7	5	2	2	3	2	1	1	2	4	5	7	3	2	2	2	4	7	2	3	1	1	6	8	2	4	5	2	1	1	97	T.			
A. ....	A.	7	5	2	2	3	2	1	1	2	4	5	7	3	2	2	2	4	7	2	3	1	1	6	8	2	4	5	2	1	1	97	A.				
Idaho .....	20	T.	.....	1	2	4	1	1	2	2	.....	.....	.....	3	1	1	1	1	.....	1	1	1	1	1	1	1	1	1	1	1	24	T.					
A. ....	A.	1	2	4	1	1	2	2	.....	.....	.....	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	24	A.				
Illinois .....	56	T.	9	1	.....	.....	.....	.....	8	11	1	2	11	1	1	10	3	2	1	1	3	7	6	1	1	1	1	1	1	1	1	1	76	T.			
A. ....	A.	9	1	.....	.....	.....	.....	8	11	1	2	11	1	1	10	3	2	1	1	3	7	6	1	1	1	1	1	1	1	1	1	76	A.				
Indiana .....	44	T.	3	3	.....	.....	.....	.....	3	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	38	T.				
A. ....	A.	3	3	.....	.....	.....	.....	3	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	38	A.				
Indian Territory .....	6	T.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	1	o	T.			
Iowa .....	81	T.	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	93	T.	
A. ....	A.	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	93	A.
Kansas .....	81	T.	7	.....	.....	.....	.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	57	T.	
A. ....	A.	7	.....	.....	.....	.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	57	A.	
Kentucky .....	39	T.	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	51	T.	
A. ....	A.	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	51	A.
Louisiana .....	49	T.	6	9	12	1	1	2	3	5	7	3	1	7	2	4	8	11	10	1	1	11	8	3	8	7	3	5	3	10	6	162	T.				
A. ....	A.	6	9	12	1	1	2	3	5	7	3	1	7	2	4	8	11	10	1	1	11	8	3	8	7	3	5	3	10	6	162	A.					
Maine .....	17	T.	1	4	.....	.....	2	6	1	1	8	1	2	4	8	1	2	4	8	1	1	3	4	1	1	1	1	1	1	1	1	1	1	49	T.		
A. ....	A.	1	4	.....	.....	2	6	1	1	8	1	2	4	8	1	2	4	8	1	1	3	4	1	1	1	1	1	1	1	1	1	1	1	49	A.		
Maryland .....	34	T.	2	4	2	1	1	1	3	3	3	3	3	5	1	2	7	2	1	2	7	2	1	2	1	1	1	1	1	1	1	1	1	50	T.		
A. ....	A.	2	4	2	1	1	1	3	3	3	3	3	5	1	2	7	2	1	2	7	2	1	2	1	1	1	1	1	1	1	1	1	50	A.			
Massachusetts .....	83	T.	14	1	1	1	1	1	14	1	1	1	1	1	1	1	1	1	1	1	13	2	1	1	1	1	1	1	1	1	1	68	T.				
A. ....	A.	14	1	1	1	1	1	1	14	1	1	1	1	1	1	1	1	1	1	1	13	2	1	1	1	1	1	1	1	1	1	68	A.				
Michigan .....	83	T.	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	7	1	1	1	1	1	1	1	1	1	43	T.				
A. ....	A.	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	43	A.				
Minnesota .....	67	T.	3	1	4	1	1	1	1	8	17	12	1	18	3	9	2	1	2	1	7	1	1	1	1	1	1	1	1	1	1	110	T.				
A. ....	A.	3	1	4	1	1	1	1	8	17	12	1	18	3	9	2	1	2	1	7	1	1	1	1	1	1	1	1	1	1	1	110	A.				
Mississippi .....	48	T.	4	5	1	1	1	1	1	1	3	1	5	4	1	1	10	10	3	1	1	2	1	1	1	3	4	1	5	2	66	T.					
A. ....	A.	4	5	1	1	1	1	1	1	1	3	1	5	4	1	1	10	10	3	1	1	2	1	1	1	3	4	1	5	2	66	A.					
Missouri .....	101	T.	5	5	.....	.....	.....	.....	16	15	7	16	3	2	8	19	4	1	18	6	8	6	17	11	1	1	1	1	1	1	1	1	1	168	T.		
A. ....	A.	5	5	.....	.....	.....	.....	16	15	7	16	3	2	8	19	4	1	18	6	8	6	17	11	1	1	1	1	1	1	1	1	1	1	168	A.		
Montana .....	29	T.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	32	T.		
A. ....	A.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	32	A.		
Nevada .....	48	T.	5	5	3	4	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	60	T.	
A. ....	A.	5	5	3	4	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	60	A.	
New Hampshire .....	28	T.	6	4	1																																

TABLE XII.—Climatological data from the monthly reports of the State Weather Services, August, 1894.

State.	Station.	Minimum.	Maximum.	Temperature.		Precipitation.		Director.
				Departure.	Station.	Greatest.	Least.	
		Mean departure.	Mean departure.	Station.	Station.	Amount.	Station.	
Alabama.....	o o	-0.7 103	• Newburg .....	o 23	Scottsboro .....	o	Carrollton† .....	F.P. Chaffee.
Alaska.....	o 0	116 *	Parker .....	49	Parker .....	20	Dadeville .....	Not yet organized.
Arizona.....	o 0	104 *	Fort Smith† .....	48	Corning .....	34	Bisbee .....	W.R. Burrows.
Arkansas.....	o 0	120	Volcano Springs .....	47	Winston† .....	29	Prescott .....	F.H. Clarke.
California.....	+1.1	120	Boca .....	35	Escondido .....	31	Edmonton .....	J.A. Barwick.
Colorado.....	+1.0	105	Gunnison .....	27	Breckenridge .....	20	Watkins .....	F.H. Brandenburg.
Connecticut.....	-1.5	89	Canton I .....	28	Voluntown .....	33	Hartford .....	J. Warren Smith.
Delaware.....	-1.1	93	Wilmington .....	50	Millsboro† .....	41	Bolton .....	G.P. Cronk.
District of Columbia.....	-1.1	97	Archer† .....	65	Manatee .....	29	Seaford .....	See Maryland.
Florida.....	-1.1	97	Bang .....	52	Lincoln .....	42	St. Louis .....	E.R. Denman.
Georgia.....	+0.5	104	Porter .....	49	Hailey .....	74	Wilkes .....	• Hypolite .....
Idaho.....	+1.0	112	Payette .....	40	Oswego I .....	40	Wilkes .....	Lafayette .....
Illinois.....	+1.7	107	Muscatine .....	49	Clear Creek .....	35	Bisbee .....	Yuma .....
Indiana.....	+2.0	103	Butteville .....	38	Bulverville .....	60	Prescott .....	Newport .....
Indian Territory.....							Ager† .....	1.43
Iowa.....	+3.6	108	Glenwood† .....	38	Orlando† .....	19	Jupiter† .....	0.02
Kansas.....	+2.2	112	Winfeld .....	40	Camilla .....	25	Camilla .....	0.10
Kentucky.....	+1.1	105	Canton† .....	41	Haliday .....	42	Wilkes .....	0.10
Louisiana.....	-0.7	100	Sandy Hook .....	55	Deagona Springs .....	42	Wilkes .....	0.10
Maine .....	-2.4	92	Madison .....	33	Farnham .....	37	Eastport .....	0.02
Maryland.....	-2.8	97	Darlington .....	39	Sunny-side .....	48	Fort Madison .....	0.02
Massachusetts.....	-1.4	94	Dowell .....	34	Groton† .....	65	Newton .....	0.53
Michigan.....	-1.4	99	Pontiac .....	30	Hesperin .....	39	Marmaton .....	0.51
Minnesota.....	+4.5	103	Bonniehill's Mills .....	32	Sunrise City .....	68	Hendricks .....	1.72
Mississippi.....	-1.1	103	Aberdeen .....	51	Corinth .....	48	Hendricks .....	0.67
Missouri.....	+2.1	111	Gorin .....	5	Elkader† .....	66	Wilkes .....	0.55
Montana.....	o 0	108	Muskellieu .....	35	Woods Holl .....	23	Wilkes .....	0.46
Nebraska.....	+2.6	108	Arborville† .....	30	Grand Haven .....	38	Wilkes .....	0.46
Nebraska.....	-0.8	105	Paradise .....	30	Wilkes .....	38	Wilkes .....	0.46
New Hampshire.....	-3.6	92	Nashua† .....	30	Wilkes .....	38	Wilkes .....	0.46
New Jersey.....	-1.1	97	Vineyard .....	38	Elmira .....	32	Wilkes .....	0.46
New Mexico.....	-1.0	103	Bloomfield .....	50	Muskeelish .....	38	Wilkes .....	0.46
New York.....	-1.4	93	Wedgewood .....	34	Hartington .....	42	Wilkes .....	0.46
North Carolina.....	-1.1	99	Wixson† .....	31	Paradise .....	42	Wilkes .....	0.46
North Dakota.....	+3.3	102	Fort Yates .....	30	Wilkes .....	43	Wilkes .....	0.46
Ohio.....	+1.1	104	Lowell .....	36	Charlotte .....	50	Wilkes .....	0.46
Oklahoma.....	-2.0	109	Alva .....	46	Hillside .....	38	Wilkes .....	0.46
Oregon.....	+0.9	109	Pendleton .....	23	Perrell .....	59	Wilkes .....	0.46
Pennsylvania.....	-1.0	88	Kingston .....	44	Providence .....	23	Wilkes .....	0.46
Rhode Island.....	-1.0	88	Bowling Green .....	36	Alv .....	41	Wilkes .....	0.46
South Carolina.....	+0.1	102	Shaws Fork .....	55	Batesburg .....	45	Wilkes .....	0.46
South Dakota.....	o 0	105	Forrestburg .....	39	Brookings .....	50	Wilkes .....	0.46
Tennessee.....	+1.8	105	Clarksville E .....	52	Driessburg .....	42	Wilkes .....	0.46
Texas.....	+2.6	105	Wedge .....	49	Hartley .....	62	Wilkes .....	0.46
Utah.....	+1.0	107	St. George .....	25	Seofield .....	64	Wilkes .....	0.46
Vermont.....	-0.6	90	Brattleboro .....	29	Jacksonville .....	37	Wilkes .....	0.46
Virginia.....	-1.0	112	Whittles Depot .....	46	Big Stone Gap .....	52	Wilkes .....	0.46
Washington.....	+1.0	112	Shublur .....	35	Bridgeport .....	56	Wilkes .....	0.46
West Virginia.....	-0.3	103	Natalibury .....	33	Sulphur .....	59	Wilkes .....	0.46
Wisconsin.....	o 0	108	Prairie Du Chene .....	29	Davis .....	62	Wilkes .....	0.46
Wyoming.....	+2.0	98	Sheridan .....	32	Florence .....	69	Wilkes .....	0.46

† At other points in the State.

\* Two or more days.